

**XX.** *Tables for reducing the Quantities by Weight, in any Mixture of pure Spirit and Water, to those by Measure; and for determining the Proportion, by Measure, of each of the two Substances in such Mixtures. By Mr. George Gilpin, Clerk to the Royal Society. Communicated by Sir Charles Blagden, Knt. Sec. R. S.*

Read June 19th, 1794.

THESE tables are founded on the experiments of which the results were given in the Report and Supplementary Report on the best method of proportioning the excise on spirituous liquors. They are computed for every degree of heat from 30° to 80°, and for the addition or subtraction of every one part in a hundred of water or spirit; but as the experiments themselves were made only to every fifth degree of heat, and every five in the hundred of water or spirit, the intermediate places are filled up by interpolation in the usual manner, with allowance for second differences.

Every table consists of eight columns, and there are two tables for every degree of heat. In the first column of the *first* of the two tables, are given the proportions of spirit and water by weight, 100 parts of spirit being taken as the constant number, to which additions are made successively of one part of water from 1 to 99 inclusively. The first column in the *second* table has 100 parts of water for the constant number, with the parts of spirit decreasing successively by unity, from

100 to 1 inclusively. It must be observed, that each of these tables occupying one page, is divided in the middle for adapting it more conveniently to the size of the paper; but the whole of each page is to be considered as one continued table. The second column of all the tables gives the specific gravities of the corresponding mixtures of spirit and water in the first column, taken from the table of specific gravities in the Supplementary Report, the intermediate spaces being filled up by interpolation. In the third column 100 parts by measure of pure spirit, at the temperature marked on the top of every separate table, is assumed as the constant standard number, to which the respective quantities of water by measure, at the same temperature, are to be proportioned in the next column. The fourth column, therefore, contains the proportion of water by measure, to 100 measures of spirit, answering to the proportions by weight in the same horizontal line of the first column. The fifth column shews the number of parts which the quantities of spirit and water contained in the third and fourth columns would measure when the mixture has been completed; that is, the bulk of the whole mixture after the concentration, or mutual penetration, has fully taken place. The sixth column, deduced from the three preceding ones, gives the effect of that concentration, or how much smaller the volume of the whole mixture is, than it would be if there was no such principle as the mutual penetration. The seventh column shews the quantity of pure spirit by measure, at the temperature in the table, contained in 100 measures of the mixture laid down in the fifth column. Lastly, the eighth column gives the decimal multiplier, by means of which the quantity by measure of standard pure spirit, of ,825 specific gravity at

60° of heat, may at once be ascertained, the temperature and specific gravity of the liquor being given ; pursuant to the idea suggested in the Report, that “ the simplest and most equitable “ method of levying the duty on spirituous liquors would be, “ to consider rectified spirit as the true and only excisable “ matter.”

It may be proper to add a short account of the method pursued in computing some of the columns of these tables. Columns I. II. and III. require no other explanation than has been already given. Col. IV. is obtained thus : divide the specific gravity of the pure spirit, at the temperature in the table, by the specific gravity of water at the same temperature : then, for the *first* of the two tables for each degree of heat, the proportion is, as 100 is to the quantity of water by weight in the first column, so is the quotient of the abovementioned division to the quantity of water by measure sought ; for the *second* of the two tables the proportion is, as the quantity of spirit by weight in the first column is to 100, so is that same quotient to the quantity of water by measure sought.

Col. V. requires more calculation. The first step is to compute what the specific gravity of the mixture in question would be if no concentration took place ; to obtain which, the constant number 100 (indicating the quantity by measure) of pure spirit, is to be multiplied by the specific gravity of pure spirit at the temperature in the table, and the corresponding measure of water in the fourth column is also to be multiplied by its specific gravity at the given temperature ; these two products being added together, their sum is to be divided by the sum of the absolute quantities of spirit and water by measure in the same horizontal line of the third and fourth columns :

then the proportion is, as this quotient (or what the specific gravity would be without concentration) is to the real specific gravity as found in the same horizontal line of the second column of the table, so is the sum of the quantities of spirit and water in the third and fourth columns inversely to the bulk of the mixture.

Col. VI. is obtained by subtracting the real bulk of the mixture in col. V. from the sum of the quantities of spirit and water in col. III. and IV. the difference between them being the diminution occasioned by the concentration on that whole quantity. Col. VII. is obviously to be computed by the following proportion : as the bulk of the whole quantity of the mixture in col. V. is to 100 (the constant quantity), so is 100 to the quantity of pure spirit *per cent.* at the temperature of the table. Col. VIII. is formed by reducing the volume of the spirit *per cent.* at the temperature of the table, to its volume at 60°, by the following proportion : as ,825 (the specific gravity of pure spirit at 60°) is to its specific gravity at the given temperature, so is the number in the seventh column to the volume of pure spirit, at 60° of heat, contained in 100 parts by measure of the mixture at the temperature of the table : this divided by 100 is the decimal multiplier sought ; the product of which into any measure of a spirituous liquor of the corresponding specific gravity and temperature, will be the true quantity of standard pure spirit, at 60° of heat, contained in that liquor.

It may very probably be thought right, for the future use of the revenue, to compute another set of tables, in which the degree of heat standing at the head of each table, the first column of it shall be even numbers of specific gravity. This would be proper for looking out at once the quantities of spirit



and water in a mixture, from its heat and specific gravity, as immediately determined by experiment. For scientific purposes also, tables should be constructed to shew the regular increments and decrements of the concentration, by equal variations in the proportions of spirit and water: but these, and others of a similar nature, which might be suggested, do not belong to the present subject.

C. B.

TABLE I.

HEAT 30°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.	Spirit and Water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	.83896	100	—	100,00	—	100,00	1,0169	100 + 50	.91023	100	41,92	138,26	3,66	72,33	.7355
1	.84129	—	0,84	100,72	0,12	99,28	1,0096	51	.91111	—	42,75	139,04	3,71	71,92	.7314
2	.84355	—	1,68	101,45	0,23	98,57	1,0024	52	.91197	—	43,59	139,83	3,76	71,51	.7273
3	.84575	—	2,51	102,18	0,33	97,87	.9953	53	.91282	—	44,43	140,62	3,81	71,11	.7232
4	.84788	—	3,35	102,91	0,44	97,18	.9882	54	.91366	—	45,27	141,41	3,86	70,72	.7191
100 + 5	.84995	—	4,19	103,64	0,55	96,49	.9812	100 + 55	.91449	—	46,11	142,20	3,91	70,33	.7151
6	.85197	—	5,03	104,38	0,65	95,80	.9743	56	.91531	—	46,95	142,99	3,96	69,94	.7112
7	.85394	—	5,87	105,12	0,75	95,13	.9674	57	.91612	—	47,78	143,78	4,00	69,55	.7073
8	.85586	—	6,71	105,87	0,84	94,46	.9606	58	.91691	—	48,62	144,57	4,05	69,17	.7034
9	.85773	—	7,54	106,61	0,93	93,80	.9539	59	.91770	—	49,46	145,36	4,10	68,80	.6996
100 + 10	.85957	—	8,38	107,36	1,02	93,14	.9472	100 + 60	.91847	—	50,30	146,15	4,15	68,42	.6958
11	.86138	—	9,22	108,11	1,11	92,50	.9406	61	.91923	—	51,14	146,94	4,20	68,05	.6920
12	.86316	—	10,06	108,86	1,20	91,86	.9341	62	.91998	—	51,98	147,73	4,25	67,69	.6883
13	.86490	—	10,90	109,61	1,29	91,23	.9277	63	.92072	—	52,81	148,52	4,29	67,33	.6846
14	.86660	—	11,73	110,37	1,36	90,61	.9214	64	.92145	—	53,65	149,32	4,33	66,97	.6810
100 + 15	.86825	—	12,57	111,12	1,45	89,99	.9151	100 + 65	.92217	—	54,49	150,11	4,38	66,62	.6774
16	.86984	—	13,41	111,87	1,54	89,38	.9089	66	.92288	—	55,33	150,90	4,43	66,27	.6739
17	.87139	—	14,25	112,63	1,62	88,77	.9028	67	.92358	—	56,17	151,70	4,47	65,92	.6704
18	.87291	—	15,09	113,39	1,70	88,17	.8967	68	.92427	—	57,01	152,49	4,52	65,58	.6669
19	.87440	—	15,93	114,15	1,78	87,58	.8907	69	.92496	—	57,84	153,29	4,55	65,24	.6634
100 + 20	.87585	—	16,77	114,91	1,86	87,00	.8847	100 + 70	.92563	—	58,68	154,08	4,60	64,90	.6600
21	.87729	—	17,60	115,67	1,93	86,42	.8788	71	.92629	—	59,52	154,88	4,64	64,57	.6566
22	.87871	—	18,44	116,44	2,00	85,85	.8730	72	.92694	—	60,36	155,67	4,69	64,24	.6532
23	.88010	—	19,28	117,21	2,07	85,29	.8673	73	.92758	—	61,20	156,47	4,73	63,91	.6499
24	.88147	—	20,12	117,98	2,14	84,73	.8616	74	.92821	—	62,04	157,26	4,78	63,59	.6466
100 + 25	.88282	—	20,96	118,75	2,21	84,18	.8560	100 + 75	.92889	—	62,87	158,06	4,81	63,27	.6434
26	.88414	—	21,80	119,53	2,27	83,64	.8505	76	.92951	—	63,71	158,85	4,86	62,95	.6402
27	.88544	—	22,63	120,31	2,32	83,10	.8451	77	.93012	—	64,55	159,65	4,90	62,63	.6370
28	.88672	—	23,47	121,09	2,38	82,57	.8397	78	.93078	—	65,39	160,45	4,94	62,32	.6338
29	.88797	—	24,31	121,87	2,44	82,05	.8344	79	.93132	—	66,23	161,25	4,98	62,02	.6306
100 + 30	.88921	—	25,15	122,65	2,50	81,53	.8291	100 + 80	.93191	—	67,07	162,05	5,02	61,71	.6275
31	.89043	—	25,99	123,43	2,56	81,02	.8239	81	.93249	—	67,90	162,84	5,06	61,41	.6244
32	.89163	—	26,83	124,21	2,62	80,51	.8188	82	.93306	—	68,74	163,64	5,10	61,11	.6214
33	.89281	—	27,66	124,98	2,68	80,01	.8137	83	.93363	—	69,58	164,44	5,14	60,81	.6184
34	.89397	—	28,50	125,76	2,74	79,52	.8087	84	.93419	—	70,42	165,24	5,18	60,52	.6154
100 + 35	.89511	—	29,34	126,53	2,81	79,03	.8037	100 + 85	.93474	—	71,26	166,04	5,22	60,22	.6124
36	.89623	—	30,18	127,31	2,87	78,55	.7988	86	.93529	—	72,10	166,84	5,26	59,94	.6095
37	.89733	—	31,02	128,09	2,93	78,07	.7939	87	.93583	—	72,93	167,64	5,29	59,65	.6066
38	.89842	—	31,86	128,87	2,99	77,60	.7891	88	.93636	—	73,77	168,44	5,33	59,37	.6037
39	.89949	—	32,69	129,65	3,04	77,13	.7844	89	.93689	—	74,61	169,24	5,37	59,09	.6008
100 + 40	.90054	—	33,54	130,43	3,11	76,67	.7797	100 + 90	.93741	—	75,45	170,04	5,41	58,81	.5980
41	.90158	—	34,38	131,21	3,17	76,21	.7751	91	.93792	—	76,29	170,85	5,44	58,53	.5952
42	.90260	—	35,22	131,99	3,23	75,76	.7705	92	.93843	—	77,13	171,65	5,48	58,26	.5924
43	.90361	—	36,05	132,77	3,28	75,32	.7660	93	.93893	—	77,96	172,45	5,51	57,99	.5897
44	.90460	—	36,89	133,55	3,34	74,88	.7615	94	.93942	—	78,80	173,25	5,55	57,72	.5870
100 + 45	.90558	—	37,72	134,33	3,39	74,44	.7570	100 + 95	.93991	—	79,64	174,05	5,59	57,45	.5843
46	.90654	—	38,56	135,12	3,44	74,01	.7526	96	.94038	—	80,47	174,85	5,62	57,19	.5816
47	.90749	—	39,40	135,90	3,50	73,58	.7483	97	.94085	—	81,30	175,65	5,65	56,93	.5790
48	.90842	—	40,24	136,69	3,55	73,16	.7440	98	.94131	—	82,14	176,46	5,68	56,67	.5763
49	.90933	—	41,08	137,47	3,61	72,74	.7397	99	.94177	—	82,98	177,27	5,71	56,41	.5736

TABLE II.

HEAT 30°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.94222	100	83,83	178,08	5,75	56,15	.5710	100 + 50	.96719	100	167,67	260,19	7,48	38,43	.3908
99	.94267	—	84,69	178,90	5,79	55,89	.5684	49	.96769	—	171,09	263,63	7,46	37,93	.3858
98	.94312	—	85,55	179,74	5,81	55,63	.5658	48	.96819	—	174,65	267,18	7,47	37,43	.3806
97	.94357	—	86,43	180,59	5,84	55,37	.5631	47	.96869	—	178,37	270,89	7,48	36,92	.3754
96	.94402	—	87,33	181,45	5,88	55,11	.5604	46	.96919	—	182,25	274,75	7,50	36,40	.3701
100 + 95	.94447	—	88,25	182,33	5,92	54,84	.5577	100 + 45	.96967	—	186,30	278,79	7,51	35,87	.3648
94	.94492	—	89,18	183,24	5,94	54,57	.5550	44	.97015	—	190,53	283,02	7,51	35,33	.3593
93	.94537	—	90,14	184,17	5,97	54,30	.5522	43	.97062	—	194,96	287,46	7,50	34,79	.3538
92	.94583	—	91,12	185,12	6,00	54,02	.5494	42	.97109	—	199,60	292,11	7,49	34,23	.3482
91	.94629	—	92,13	186,09	6,04	53,74	.5465	41	.97155	—	204,47	296,98	7,49	33,67	.3424
100 + 90	.94675	—	93,15	187,08	6,07	53,45	.5436	100 + 40	.97200	—	209,58	302,12	7,46	33,10	.3366
89	.94723	—	94,19	188,09	6,10	53,17	.5407	39	.97244	—	214,96	307,49	7,47	32,52	.3307
88	.94771	—	95,26	189,12	6,14	52,88	.5377	38	.97288	—	220,62	313,17	7,45	31,94	.3247
87	.94821	—	96,36	190,18	6,18	52,58	.5347	37	.97332	—	226,58	319,17	7,41	31,34	.3186
86	.94870	—	97,48	191,26	6,22	52,28	.5317	36	.97375	—	232,87	325,51	7,36	30,73	.3124
100 + 85	.94920	—	98,63	192,37	6,26	51,98	.5286	100 + 35	.97418	—	239,53	332,18	7,35	30,11	.3061
84	.94970	—	99,80	193,51	6,29	51,68	.5255	34	.97461	—	246,57	339,26	7,31	29,48	.2997
83	.95021	—	101,00	194,67	6,33	51,37	.5224	33	.97504	—	254,04	346,79	7,25	28,84	.2932
82	.95071	—	102,24	195,86	6,38	51,06	.5192	32	.97548	—	261,98	354,79	7,19	28,19	.2866
81	.95122	—	103,50	197,09	6,41	50,74	.5160	31	.97591	—	270,43	363,29	7,14	27,53	.2799
100 + 80	.95173	—	104,79	198,34	6,45	50,42	.5127	100 + 30	.97635	—	279,44	372,36	7,08	26,86	.2731
79	.95224	—	106,12	199,62	6,50	50,09	.5094	29	.97679	—	289,08	382,04	7,04	26,17	.2662
78	.95275	—	107,48	200,95	6,53	49,76	.5060	28	.97723	—	299,41	392,43	6,98	25,48	.2591
77	.95327	—	108,88	202,31	6,57	49,43	.5026	27	.97768	—	310,50	403,60	6,90	24,78	.2519
76	.95378	—	110,31	203,70	6,61	49,09	.4992	26	.97814	—	322,44	415,63	6,81	24,06	.2446
100 + 75	.95429	—	111,78	205,13	6,65	48,75	.4957	100 + 25	.97860	—	335,34	428,65	6,69	23,33	.2372
74	.95479	—	113,29	206,61	6,68	48,40	.4922	24	.97905	—	349,31	442,73	6,58	22,59	.2297
73	.95529	—	114,84	208,13	6,71	48,05	.4886	23	.97954	—	364,49	458,03	6,46	21,83	.2220
72	.95580	—	116,44	209,69	6,75	47,69	.4850	22	.98004	—	381,06	474,72	6,34	21,06	.2142
71	.95630	—	118,08	211,29	6,79	47,33	.4813	21	.98055	—	399,21	492,99	6,22	20,28	.2063
100 + 70	.95681	—	119,76	212,94	6,82	46,96	.4775	100 + 20	.98108	—	419,17	513,08	6,09	19,49	.1982
69	.95733	—	121,49	214,64	6,85	46,59	.4738	19	.98163	—	441,23	535,29	5,94	18,68	.1900
68	.95786	—	123,28	216,39	6,89	46,21	.4700	18	.98221	—	465,74	559,95	5,79	17,86	.1816
67	.95838	—	126,12	218,19	6,93	45,83	.4661	17	.98282	—	493,14	587,50	5,64	17,02	.1731
66	.95891	—	127,02	220,05	6,97	45,44	.4621	16	.98345	—	523,96	618,48	5,48	16,17	.1644
100 + 65	.95944	—	128,98	221,97	7,01	45,05	.4581	100 + 15	.98412	—	558,89	653,58	5,31	15,30	.1556
64	.95997	—	130,99	223,95	7,04	44,65	.4541	14	.98481	—	598,81	693,69	5,12	14,41	.1466
63	.96050	—	133,06	225,99	7,07	44,25	.4500	13	.98555	—	644,88	739,94	4,94	13,51	.1375
62	.96103	—	135,21	228,10	7,11	43,84	.4458	12	.98633	—	698,62	793,88	4,74	12,59	.1281
61	.96156	—	137,43	230,28	7,15	43,43	.4416	11	.98716	—	762,13	857,59	4,54	11,66	.1186
100 + 60	.96209	—	139,72	232,54	7,18	43,00	.4373	100 + 10	.98804	—	838,34	934,04	4,30	10,71	.1089
59	.96262	—	142,08	234,87	7,21	42,58	.4330	9	.98896	—	931,49	1027,42	4,07	9,73	.0990
58	.96314	—	144,53	237,29	7,24	42,14	.4286	8	.98995	—	1047,92	1144,10	3,82	8,74	.0889
57	.96367	—	147,07	239,80	7,27	41,70	.4241	7	.99101	—	1197,63	1294,05	3,58	7,73	.0786
56	.96418	—	149,70	242,40	7,30	41,25	.4195	6	.99214	—	1397,23	1493,91	3,32	6,69	.0681
100 + 55	.96470	—	152,42	245,09	7,33	40,80	.4149	100 + 5	.99334	—	1676,68	1773,63	3,05	5,64	.0573
54	.96520	—	155,22	247,87	7,35	40,34	.4102	4	.99463	—	2095,85	2193,08	2,77	4,56	.0464
53	.96570	—	158,14	250,77	7,37	39,87	.4054	3	.99602	—	2794,46	2891,94	2,52	3,46	.0352
52	.96620	—	161,19	253,79	7,40	39,40	.4006	2	.99751	—	4191,71	4289,38	2,33	2,33	.0237
51	.96670	—	164,36	256,92	7,44	38,92	.3957	1	.99910	—	8383,40	8481,13	2,27	1,18	.0120

TABLE I.

HEAT 31°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	.83852	100	—	100,00	—	100,00	1,0164	100 + 50	.90980	100	41,90	138,25	3,65	72,33	.7352
1	.84084	—	0,84	100,72	0,12	99,28	1,0091	51	.91069	—	42,72	139,03	3,69	71,92	.7311
2	.84310	—	1,68	101,45	0,23	98,57	1,0019	52	.91155	—	43,57	139,82	3,75	71,51	.7270
3	.84530	—	2,51	102,18	0,33	97,87	.9948	53	.91241	—	44,40	140,61	3,79	71,12	.7229
4	.84743	—	3,35	102,91	0,44	97,18	.9877	54	.91325	—	45,24	141,40	3,84	70,72	.7188
100 + 5	.84950	—	4,19	103,64	0,55	96,49	.9807	100 + 55	.91408	—	46,08	142,18	3,90	70,33	.7148
6	.85152	—	5,03	104,38	0,65	95,80	.9738	56	.91490	—	46,92	142,97	3,95	69,94	.7109
7	.85349	—	5,87	105,12	0,75	95,13	.9669	57	.91571	—	47,75	143,76	3,99	69,56	.7070
8	.85541	—	6,71	105,87	0,84	94,46	.9601	58	.91650	—	48,59	144,55	4,04	69,18	.7031
9	.85728	—	7,54	106,61	0,93	93,80	.9534	59	.91729	—	49,43	145,34	4,09	68,80	.6993
100 + 10	.85911	—	8,38	107,36	1,02	93,14	.9467	100 + 60	.91806	—	50,27	146,13	4,14	68,43	.6955
11	.86092	—	9,22	108,11	1,11	92,50	.9401	61	.91882	—	51,11	146,92	4,19	68,06	.6917
12	.86270	—	10,05	108,86	1,19	91,86	.9336	62	.91957	—	51,95	147,71	4,24	67,69	.6880
13	.86443	—	10,89	109,61	1,28	91,23	.9272	63	.92031	—	52,78	148,50	4,28	67,34	.6843
14	.86613	—	11,72	110,37	1,35	90,61	.9209	64	.92104	—	53,62	149,30	4,32	66,98	.6807
100 + 15	.86778	—	12,56	111,12	1,44	89,99	.9146	100 + 65	.92176	—	54,46	150,09	4,37	66,63	.6771
16	.86937	—	13,41	111,88	1,53	89,38	.9084	66	.92247	—	55,29	150,88	4,41	66,28	.6736
17	.87092	—	14,24	112,63	1,61	88,77	.9023	67	.92317	—	56,14	151,68	4,46	65,92	.6701
18	.87244	—	15,08	113,39	1,69	88,17	.8963	68	.92386	—	56,97	152,47	4,50	65,58	.6666
19	.87394	—	15,92	114,15	1,77	87,58	.8903	69	.92455	—	57,80	153,27	4,55	65,24	.6631
100 + 20	.87539	—	16,76	114,91	1,85	87,00	.8842	100 + 70	.92522	—	58,64	154,06	4,58	64,91	.6597
21	.87683	—	17,59	115,68	1,91	86,42	.8784	71	.92588	—	59,48	154,86	4,62	64,57	.6563
22	.87826	—	18,43	116,45	1,98	85,85	.8726	72	.92653	—	60,32	155,66	4,66	64,24	.6530
23	.87966	—	19,27	117,21	2,06	85,29	.8669	73	.92717	—	61,16	156,46	4,70	63,91	.6497
24	.88103	—	20,11	117,98	2,13	84,73	.8612	74	.92780	—	62,00	157,25	4,75	63,59	.6464
100 + 25	.88238	—	20,95	118,75	2,20	84,18	.8556	100 + 75	.92848	—	62,83	158,04	4,79	63,27	.6431
26	.88370	—	21,79	119,53	2,26	83,64	.8501	76	.92910	—	63,67	158,83	4,84	62,96	.6399
27	.88500	—	22,62	120,31	2,31	83,10	.8447	77	.92971	—	64,51	159,64	4,87	62,63	.6367
28	.88628	—	23,46	121,09	2,37	82,57	.8393	78	.93036	—	65,35	160,43	4,92	62,33	.6335
29	.88753	—	24,30	121,87	2,43	82,05	.8340	79	.93091	—	66,19	161,23	4,96	62,02	.6303
100 + 30	.88877	—	25,14	122,65	2,49	81,53	.8287	100 + 80	.93150	—	67,03	162,03	5,00	61,72	.6273
31	.88999	—	25,97	123,42	2,55	81,02	.8235	81	.93209	—	67,86	162,82	5,04	61,41	.6242
32	.89120	—	26,81	124,20	2,61	80,51	.8184	82	.93266	—	68,70	163,62	5,08	61,12	.6212
33	.89238	—	27,65	124,97	2,68	80,01	.8133	83	.93323	—	69,54	164,42	5,12	60,81	.6182
34	.89354	—	28,48	125,75	2,73	79,52	.8083	84	.93379	—	70,38	165,22	5,16	60,52	.6151
100 + 35	.89468	—	29,32	126,52	2,80	79,03	.8033	100 + 85	.93434	—	71,22	166,03	5,19	60,23	.6122
36	.89580	—	30,16	127,30	2,86	78,55	.7984	86	.93489	—	72,05	166,83	5,22	59,95	.6093
37	.89690	—	31,00	128,08	2,92	78,07	.7936	87	.93543	—	72,89	167,63	5,26	59,66	.6064
38	.89799	—	31,84	128,86	2,98	77,60	.7887	88	.93596	—	73,72	168,43	5,29	59,37	.6035
39	.89906	—	32,67	129,64	3,03	77,13	.7841	89	.93649	—	74,56	169,23	5,33	59,09	.6006
100 + 40	.90011	—	33,52	130,42	3,10	76,67	.7793	100 + 90	.93701	—	75,40	170,03	5,37	58,82	.5978
41	.90115	—	34,36	131,20	3,16	76,21	.7748	91	.93752	—	76,24	170,83	5,41	58,53	.5950
42	.90218	—	35,19	131,98	3,21	75,76	.7702	92	.93802	—	77,08	171,63	5,45	58,27	.5922
43	.90319	—	36,03	132,76	3,27	75,32	.7657	93	.93852	—	77,91	172,43	5,48	58,00	.5895
44	.90418	—	36,86	133,54	3,32	74,88	.7612	94	.93901	—	78,75	173,24	5,51	57,73	.5868
100 + 45	.90516	—	37,70	134,32	3,38	74,45	.7567	100 + 95	.93950	—	79,59	174,03	5,56	57,46	.5841
46	.90612	—	38,53	135,11	3,42	74,01	.7523	96	.93998	—	80,42	174,84	5,58	57,20	.5814
47	.90707	—	39,37	135,89	3,48	73,59	.7480	97	.94045	—	81,25	175,64	5,61	56,93	.5788
48	.90800	—	40,21	136,68	3,53	73,17	.7437	98	.94092	—	82,09	176,44	5,65	56,67	.5761
49	.90891	—	41,06	137,46	3,60	72,74	.7394	99	.94138	—	82,93	177,25	5,68	56,42	.5734

TABLE II.

HEAT 31°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.94183	100	83.78	178.06	5.72	56.15	.5708	100 + 50	.96691	100	167.57	260.13	7.44	38.44	.3907
99	.94228	—	84.64	178.88	5.76	55.90	.5682	49	.96742	—	170.99	263.56	7.43	37.94	.3857
98	.94273	—	85.51	179.72	5.79	55.64	.5656	48	.96792	—	174.55	267.11	7.44	37.44	.3805
97	.94318	—	86.38	180.57	5.81	55.37	.5629	47	.96843	—	178.26	270.81	7.45	36.93	.3754
96	.94363	—	87.29	181.43	5.86	55.12	.5602	46	.96893	—	182.14	274.67	7.47	36.41	.3701
100 + 95	.94408	—	88.20	182.31	5.89	54.84	.5575	100 + 45	.96941	—	186.19	278.72	7.47	35.88	.3647
94	.94453	—	89.13	183.22	5.91	54.57	.5548	44	.96990	—	190.42	282.94	7.48	35.34	.3592
93	.94498	—	90.09	184.15	5.94	54.30	.5520	43	.97038	—	194.85	287.37	7.48	34.79	.3537
92	.94544	—	91.07	185.09	5.98	54.02	.5492	42	.97085	—	199.48	292.02	7.46	34.24	.3481
91	.94591	—	92.08	186.07	6.01	53.75	.5463	41	.97132	—	204.35	296.89	7.46	33.68	.3424
100 + 90	.94636	—	93.10	187.06	6.04	53.46	.5434	100 + 40	.97178	—	209.46	302.02	7.44	33.11	.3365
89	.94685	—	94.14	188.06	6.08	53.17	.5405	39	.97222	—	214.83	307.39	7.44	32.53	.3307
88	.94734	—	95.21	189.10	6.11	52.89	.5375	38	.97267	—	220.49	313.07	7.42	31.94	.3247
87	.94784	—	96.31	190.16	6.15	52.59	.5345	37	.97311	—	226.45	319.07	7.38	31.34	.3186
86	.94833	—	97.42	191.24	6.18	52.29	.5315	36	.97355	—	232.73	325.40	7.33	30.73	.3124
100 + 85	.94883	—	98.58	192.35	6.23	51.99	.5284	100 + 35	.97399	—	239.39	332.07	7.32	30.12	.3061
84	.94933	—	99.75	193.49	6.26	51.69	.5253	54	.97442	—	246.43	339.15	7.28	29.49	.2997
83	.94984	—	100.94	194.65	6.29	51.37	.5222	33	.97486	—	253.89	346.67	7.22	28.85	.2932
82	.95034	—	102.18	195.83	6.35	51.06	.5190	32	.97531	—	261.83	354.66	7.17	28.20	.2866
81	.95085	—	103.44	197.06	6.38	50.75	.5158	31	.97575	—	270.27	363.16	7.11	27.54	.2799
100 + 80	.95136	—	104.73	198.32	6.41	50.43	.5125	100 + 30	.97620	—	279.28	372.22	7.06	26.87	.2731
79	.95188	—	106.06	199.60	6.46	50.10	.5092	29	.97664	—	288.91	381.90	7.01	26.18	.2662
78	.95239	—	107.42	200.92	6.50	49.76	.5058	28	.97709	—	299.24	392.29	6.95	25.49	.2591
77	.95291	—	108.82	202.28	6.54	49.44	.5024	27	.97755	—	310.32	403.44	6.88	24.78	.2519
76	.95342	—	110.25	203.67	6.58	49.09	.4990	26	.97802	—	322.25	415.47	6.78	24.07	.2446
100 + 75	.95392	—	111.72	205.10	6.62	48.75	.4955	100 + 25	.97849	—	335.15	428.47	6.68	23.34	.2372
74	.95443	—	113.22	206.58	6.64	48.41	.4921	24	.97896	—	349.11	442.54	6.57	22.59	.2297
73	.95493	—	114.77	208.10	6.67	48.05	.4885	23	.97945	—	364.28	457.83	6.45	21.84	.2220
72	.95544	—	116.38	209.66	6.72	47.69	.4849	22	.97996	—	381.84	474.50	6.34	21.07	.2142
71	.95594	—	118.01	211.25	6.76	47.34	.4812	21	.98048	—	398.98	492.76	6.22	20.29	.2063
100 + 70	.95646	—	119.69	212.90	6.79	46.97	.4774	100 + 20	.98102	—	418.93	512.84	6.09	19.50	.1982
69	.95698	—	121.42	214.60	6.82	46.59	.4736	19	.98158	—	440.98	535.03	5.95	18.69	.1900
68	.95751	—	123.21	216.35	6.86	46.21	.4699	18	.98216	—	465.47	559.68	5.79	17.87	.1816
67	.95803	—	126.05	218.16	6.89	45.83	.4660	17	.98278	—	492.86	587.21	5.65	17.03	.1731
66	.95857	—	126.94	220.01	6.93	45.45	.4620	16	.98342	—	523.66	618.17	5.49	16.17	.1644
100 + 65	.95910	—	128.91	221.93	6.98	45.06	.4580	100 + 15	.98409	—	558.57	653.25	5.32	15.31	.1556
64	.95963	—	130.92	223.91	7.01	44.66	.4540	14	.98479	—	598.47	693.33	5.14	14.42	.1466
63	.96017	—	132.98	225.95	7.03	44.26	.4499	13	.98554	—	644.51	739.55	4.96	13.52	.1375
62	.96070	—	135.13	228.06	7.07	43.85	.4457	12	.98632	—	698.22	793.46	4.76	12.60	.1281
61	.96124	—	137.35	230.23	7.12	43.44	.4415	11	.98716	—	761.69	857.13	4.56	11.67	.1186
100 + 60	.96177	—	139.64	232.50	7.14	43.01	.4372	100 + 10	.98804	—	837.86	933.54	4.32	10.71	.1089
59	.96230	—	142.00	234.83	7.17	42.59	.4329	9	.98896	—	930.96	1026.86	4.10	9.74	.0990
58	.96283	—	144.45	237.24	7.21	42.15	.4285	8	.98997	—	1047.32	1143.47	3.85	8.74	.0889
57	.96336	—	146.99	239.75	7.24	41.71	.4240	7	.99103	—	1196.95	1293.34	3.61	7.73	.0786
56	.96387	—	149.62	242.34	7.28	41.26	.4194	6	.99216	—	1396.44	1493.08	3.36	6.70	.0681
100 + 55	.96439	—	152.33	245.03	7.30	40.81	.4148	100 + 5	.99336	—	1675.73	1772.64	3.09	5.64	.0573
54	.96490	—	155.13	247.81	7.32	40.35	.4101	4	.99466	—	2094.65	2191.85	2.80	4.56	.0464
53	.96541	—	158.05	250.71	7.34	39.88	.4053	3	.99605	—	2792.86	2890.32	2.54	3.46	.0352
52	.96591	—	161.10	253.73	7.37	39.41	.4005	2	.99754	—	4189.30	4886.96	2.34	2.33	.0237
51	.96642	—	164.26	256.87	7.39	38.93	.3956	1	.99913	—	8378.58	8476.39	2.19	1.18	.0120

TABLE I.

HEAT 32°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0,83807	100	—	100,00	—	100,00	1,0158		100 + 50,90937	100	—	41,87	138,24	3,63	72,34	,7348
1,84039	—	0,84	100,72	0,12	99,28	1,0086		51,91027	—	—	42,70	139,02	3,68	71,93	,7308
2,84265	—	1,68	101,45	0,23	98,57	1,0014		52,91113	—	—	43,54	139,81	3,73	71,52	,7266
3,84485	—	2,51	102,18	0,33	97,87	,9943		53,91199	—	—	44,38	140,60	3,78	71,12	,7226
4,84698	—	3,35	102,91	0,44	97,18	,9872		54,91284	—	—	45,22	141,39	3,83	70,73	,7185
100 + 5,84905	—	4,19	103,64	0,55	96,49	,9801		100 + 55,91367	—	—	46,06	142,17	3,89	70,34	,7145
6,85107	—	5,03	104,38	0,65	95,80	,9733		56,91448	—	—	46,90	142,96	3,94	69,95	,7106
7,85304	—	5,87	105,12	0,75	95,13	,9664		57,91530	—	—	47,73	143,75	3,98	69,56	,7067
8,85496	—	6,70	105,87	0,83	94,46	,9596		58,91609	—	—	48,56	144,54	4,02	69,18	,7028
9,85683	—	7,54	106,61	0,93	93,80	,9529		59,91687	—	—	49,40	145,33	4,07	68,81	,6990
100 + 10,85866	—	8,37	107,36	1,01	93,14	,9462		100 + 60,91764	—	—	50,24	146,12	4,12	68,43	,6952
11,86046	—	9,21	108,11	1,10	92,50	,9396		61,91840	—	—	51,08	146,91	4,17	68,06	,6914
12,86224	—	10,05	108,86	1,19	91,86	,9331		62,91916	—	—	51,92	147,70	4,22	67,70	,6877
13,86396	—	10,88	109,61	1,27	91,23	,9267		63,91990	—	—	52,75	148,49	4,26	67,34	,6840
14,86565	—	11,72	110,37	1,35	90,61	,9204		64,92063	—	—	53,59	149,29	4,30	66,98	,6804
100 + 15,86730	—	12,56	111,12	1,44	89,99	,9141		100 + 65,92135	—	—	54,43	150,08	4,35	66,63	,6769
16,86890	—	13,40	111,88	1,52	89,38	,9079		66,92206	—	—	55,26	150,87	4,39	66,28	,6733
17,87045	—	14,23	112,64	1,59	88,77	,9018		67,92276	—	—	56,11	151,67	4,44	65,93	,6698
18,87198	—	15,07	113,40	1,67	88,17	,8958		68,92345	—	—	56,94	152,46	4,48	65,59	,6663
19,87348	—	15,91	114,16	1,75	87,58	,8898		69,92413	—	—	57,77	153,26	4,51	65,25	,6628
100 + 20,87494	—	16,75	114,92	1,83	87,00	,8838		100 + 70,92481	—	—	58,61	154,05	4,56	64,91	,6594
21,87638	—	17,58	115,68	1,90	86,42	,8779		71,92547	—	—	59,45	154,85	4,60	64,58	,6560
22,87780	—	18,42	116,45	1,97	85,85	,8721		72,92612	—	—	60,28	155,64	4,64	64,25	,6527
23,87921	—	19,26	117,22	2,04	85,29	,8664		73,92676	—	—	61,12	156,44	4,68	63,92	,6494
24,88059	—	20,10	117,99	2,11	84,73	,8607		74,92739	—	—	61,97	157,24	4,73	63,60	,6461
100 + 25,88193	—	20,94	118,76	2,18	84,18	,8552		100 + 75,92806	—	—	62,80	158,03	4,77	63,28	,6428
26,88326	—	21,77	119,53	2,24	83,64	,8497		76,92869	—	—	63,64	158,82	4,82	62,96	,6396
27,88456	—	22,61	120,31	2,30	83,11	,8443		77,92930	—	—	64,48	159,63	4,85	62,64	,6364
28,88584	—	23,45	121,09	2,36	82,58	,8389		78,92994	—	—	65,31	160,42	4,89	62,33	,6333
29,88709	—	24,28	121,86	2,42	82,05	,8336		79,93050	—	—	66,15	161,22	4,93	62,03	,6300
100 + 30,88833	—	25,12	122,64	2,48	81,53	,8283		100 + 80,93109	—	—	67,00	162,02	4,98	61,72	,6270
31,88955	—	25,96	123,42	2,54	81,02	,8231		81,93168	—	—	67,82	162,81	5,01	61,42	,6240
32,89076	—	26,80	124,19	2,61	80,52	,8180		82,93226	—	—	68,66	163,61	5,05	61,12	,6210
33,89195	—	27,64	124,97	2,67	80,02	,8129		83,93283	—	—	69,50	164,41	5,09	60,82	,6179
34,89311	—	28,47	125,75	2,72	79,53	,8079		84,93339	—	—	70,34	165,21	5,13	60,53	,6149
100 + 35,89424	—	29,31	126,52	2,79	79,03	,8029		100 + 85,93394	—	—	71,18	166,01	5,17	60,23	,6119
36,89537	—	30,15	127,30	2,85	78,56	,7980		86,93449	—	—	72,01	166,81	5,20	59,95	,6091
37,89647	—	30,99	128,07	2,92	78,08	,7932		87,93503	—	—	72,85	167,61	5,24	59,66	,6062
38,89756	—	31,83	128,85	2,98	77,61	,7884		88,93556	—	—	73,68	168,41	5,27	59,38	,6032
39,88863	—	32,65	129,63	3,02	77,14	,7837		89,93609	—	—	74,52	169,21	5,31	59,10	,6004
100 + 40,89968	—	33,50	130,41	3,09	76,67	,7789		100 + 90,93661	—	—	75,36	170,01	5,35	58,82	,5975
41,90072	—	34,34	131,19	3,15	76,22	,7744		91,93712	—	—	76,20	170,82	5,38	58,54	,5948
42,90175	—	35,17	131,97	3,20	75,77	,7698		92,93762	—	—	77,04	171,62	5,42	58,27	,5920
43,90276	—	36,01	132,75	3,26	75,33	,7653		93,93812	—	—	77,87	172,42	5,45	58,00	,5892
44,90376	—	36,84	133,53	3,31	74,89	,7608		94,93861	—	—	78,71	173,22	5,49	57,73	,5866
100 + 45,90474	—	37,68	134,31	3,37	74,45	,7563		100 + 95,93910	—	—	79,55	174,02	5,53	57,46	,5838
46,90570	—	38,51	135,10	3,41	74,02	,7520		96,93958	—	—	80,38	174,82	5,56	57,21	,5812
47,90665	—	39,35	135,88	3,47	73,59	,7477		97,94005	—	—	81,21	175,62	5,59	56,94	,5785
48,90758	—	40,19	136,67	3,52	73,17	,7434		98,94052	—	—	82,04	176,42	5,62	56,68	,5758
49,90849	—	41,03	137,45	3,58	72,75	,7391		99,94099	—	—	82,88	177,23	5,65	56,42	,5732



TABLE II.

HEAT 32°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.94144	100	83.74	178.04	5.70	56.16	.5706	100 + 50	.96663	100	167.48	260.08	7.40	38.44	.3905
99	.94189	—	84.59	178.86	5.73	55.91	.5679	49	.96714	—	170.89	263.50	7.39	37.95	.3856
98	.94233	—	85.46	179.70	5.76	55.65	.5653	48	.96765	—	174.45	267.04	7.41	37.45	.3804
97	.94278	—	86.33	180.55	5.78	55.38	.5626	47	.96816	—	178.16	270.73	7.43	36.94	.3752
96	.94333	—	87.24	181.41	5.83	55.12	.5600	46	.96867	—	182.03	274.59	7.44	36.42	.3700
100 + 95	.94369	—	88.15	182.29	5.86	54.85	.5573	100 + 45	.96915	—	186.08	278.64	7.44	35.89	.3646
94	.94413	—	89.08	183.20	5.88	54.58	.5545	44	.96965	—	190.31	282.86	7.45	35.35	.3591
93	.94459	—	90.04	184.12	5.92	54.31	.5517	43	.97013	—	194.74	287.29	7.45	34.80	.3536
92	.94505	—	91.02	185.07	5.95	54.03	.5489	42	.97061	—	199.37	291.94	7.43	34.25	.3480
91	.94552	—	92.02	186.04	5.98	53.75	.5461	41	.97108	—	204.23	296.80	7.43	33.69	.3423
100 + 90	.94598	—	93.04	187.03	6.01	53.47	.5431	100 + 40	.97155	—	209.34	301.92	7.42	33.12	.3365
89	.94647	—	94.08	188.04	6.04	53.18	.5403	39	.97200	—	214.71	307.29	7.42	32.54	.3306
88	.94696	—	95.15	189.07	6.08	52.89	.5373	38	.97245	—	220.36	312.97	7.39	31.95	.3246
87	.94746	—	96.25	190.13	6.12	52.59	.5343	37	.97290	—	226.32	318.97	7.35	31.35	.3185
86	.94795	—	97.37	191.21	6.16	52.30	.5313	36	.97335	—	232.60	325.30	7.30	30.74	.3123
100 + 85	.94845	—	98.52	192.32	6.20	51.99	.5282	100 + 35	.97379	—	239.25	331.96	7.29	30.12	.3060
84	.94896	—	99.69	193.46	6.23	51.69	.5251	34	.97423	—	246.29	339.03	7.26	29.50	.2996
83	.94947	—	100.89	194.62	6.27	51.38	.5220	33	.97468	—	253.74	346.55	7.19	28.86	.2931
82	.94997	—	102.12	195.81	6.31	51.07	.5188	32	.97513	—	261.68	354.54	7.14	28.21	.2865
81	.95048	—	103.38	197.03	6.35	50.76	.5156	31	.97558	—	270.12	363.03	7.09	27.55	.2798
100 + 80	.95099	—	104.67	198.29	6.38	50.44	.5123	100 + 30	.97604	—	279.12	372.08	7.04	26.88	.2730
79	.95151	—	106.00	199.57	6.43	50.11	.5090	29	.97649	—	288.74	381.76	6.98	26.19	.2661
78	.95202	—	107.36	200.89	6.47	49.77	.5046	28	.97695	—	299.07	392.15	6.92	25.50	.2591
77	.95254	—	108.76	202.25	6.51	49.45	.5022	27	.97741	—	310.14	403.29	6.85	24.79	.2519
76	.95305	—	110.19	203.64	6.55	49.10	.4988	26	.97789	—	322.06	415.31	6.75	24.08	.2446
100 + 75	.95355	—	111.66	205.07	6.59	48.76	.4953	100 + 25	.97837	—	334.96	428.30	6.66	23.35	.2372
74	.95406	—	113.15	206.55	6.60	48.42	.4919	24	.97885	—	348.91	442.35	6.56	22.60	.2297
73	.95457	—	114.70	208.06	6.64	48.06	.4883	23	.97935	—	364.07	457.63	6.44	21.85	.2220
72	.95508	—	116.31	209.63	6.68	47.70	.4847	22	.97987	—	381.62	474.29	6.33	21.08	.2142
71	.95558	—	117.94	211.22	6.72	47.34	.4810	21	.98040	—	398.75	492.53	6.22	20.30	.2063
100 + 70	.95610	—	119.62	212.87	6.75	46.98	.4772	100 + 20	.98096	—	418.69	512.60	6.09	19.51	.1981
69	.95662	—	121.35	214.57	6.78	46.60	.4734	19	.98152	—	440.73	534.77	5.96	18.70	.1900
68	.95715	—	123.14	216.31	6.83	46.22	.4697	18	.98211	—	465.20	559.41	5.79	17.87	.1816
67	.95768	—	124.98	218.12	6.86	45.84	.4658	17	.98273	—	492.58	586.92	5.66	17.04	.1731
66	.95822	—	126.87	219.98	6.89	45.46	.4618	16	.98338	—	523.36	617.86	5.50	16.18	.1644
100 + 65	.95875	—	128.83	221.89	6.94	45.07	.4578	100 + 15	.98406	—	558.25	652.92	5.33	15.32	.1556
64	.95929	—	130.84	223.87	6.97	44.67	.4538	14	.98477	—	598.13	692.97	5.16	14.42	.1466
63	.95983	—	132.90	225.91	6.99	44.26	.4497	13	.98552	—	644.14	739.17	4.97	13.53	.1375
62	.96037	—	135.05	228.01	7.04	43.85	.4455	12	.98631	—	697.82	793.04	4.78	12.61	.1281
61	.96091	—	137.27	230.19	7.08	43.44	.4413	11	.98715	—	761.26	856.68	4.58	11.67	.1186
100 + 60	.96145	—	139.56	232.45	7.11	43.02	.4370	100 + 10	.98804	—	837.38	933.04	4.34	10.72	.1089
59	.96198	—	141.92	234.78	7.14	42.60	.4327	9	.98897	—	930.43	1026.30	4.13	9.74	.0990
58	.96251	—	144.36	237.19	7.17	42.16	.4283	8	.98998	—	1046.72	1142.85	3.87	8.75	.0889
57	.96304	—	146.90	239.70	7.20	41.72	.4238	7	.99105	—	1196.27	1292.63	3.64	7.73	.0786
56	.96356	—	149.53	242.29	7.24	41.27	.4193	6	.99218	—	1395.65	1492.25	3.40	6.70	.0681
100 + 55	.96408	—	152.24	244.97	7.27	40.82	.4146	100 + 5	.99338	—	1674.78	1771.65	3.13	5.64	.0573
54	.96459	—	155.04	247.75	7.29	40.36	.4100	4	.99469	—	2093.45	2190.63	2.82	4.56	.0464
53	.96511	—	157.96	250.66	7.30	39.89	.4052	3	.99608	—	2791.27	2888.71	2.56	3.46	.0352
52	.96562	—	161.01	253.68	7.33	39.42	.4004	2	.99757	—	4186.91	4284.58	2.33	2.33	.0237
51	.96613	—	164.17	256.81	7.36	38.93	.3955	1	.99916	—	8373.79	8471.67	2.12	1.18	.0120

TABLE I.

HEAT 33°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.	Spirit and Water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83762	100	—	100,00	—	100,00	1,0153	100 + 50	,90895	100	41,85	138,23	3,62	72,34	,7345
1	,83994	—	0,84	100,72	0,12	99,28	1,0081	51	,90985	—	42,67	139,01	3,66	71,93	,7304
2	,84220	—	1,68	101,45	0,23	98,57	1,0009	52	,91071	—	43,52	139,80	3,72	71,53	,7263
3	,84440	—	2,51	102,18	0,33	97,87	,9938	53	,91157	—	44,35	140,59	3,76	71,13	,7223
4	,84653	—	3,35	102,91	0,44	97,18	,9867	54	,91242	—	45,19	141,38	3,81	70,73	,7182
100 + 5	,84860	—	4,19	103,64	0,55	96,49	,9796	100 + 55	,91325	—	46,03	142,16	3,87	70,34	,7142
6	,85062	—	5,03	104,38	0,65	95,80	,9728	56	,91406	—	46,87	142,95	3,92	69,95	,7103
7	,85259	—	5,86	105,12	0,74	95,13	,9659	57	,91488	—	47,70	143,74	3,96	69,57	,7064
8	,85451	—	6,70	105,87	0,83	94,46	,9591	58	,91567	—	48,53	144,53	4,00	69,19	,7025
9	,85638	—	7,53	106,61	0,92	93,80	,9524	59	,91645	—	49,37	145,32	4,05	68,81	,6986
100 + 10	,85820	—	8,37	107,36	1,01	93,14	,9457	100 + 60	,91722	—	50,21	146,11	4,10	68,44	,6949
11	,86000	—	9,21	108,11	1,10	92,50	,9391	61	,91799	—	51,05	146,90	4,15	68,07	,6911
12	,86178	—	10,04	108,86	1,18	91,86	,9326	62	,91875	—	51,89	147,69	4,20	67,71	,6874
13	,86349	—	10,88	109,61	1,27	91,23	,9262	63	,91949	—	52,72	148,48	4,24	67,35	,6837
14	,86518	—	11,71	110,37	1,34	90,61	,9199	64	,92021	—	53,56	149,28	4,28	66,99	,6801
100 + 15	,86683	—	12,55	111,12	1,43	89,99	,9136	100 + 65	,92093	—	54,40	150,07	4,33	66,64	,6766
16	,86842	—	13,39	111,88	1,51	89,38	,9074	66	,92164	—	55,23	150,86	4,37	66,29	,6730
17	,86998	—	14,23	112,64	1,59	88,77	,9013	67	,92234	—	56,07	151,66	4,41	65,94	,6695
18	,87151	—	15,07	113,40	1,67	88,17	,8953	68	,92303	—	56,91	152,45	4,46	65,59	,6660
19	,87302	—	15,90	114,16	1,74	87,58	,8893	69	,92371	—	57,74	153,24	4,50	65,25	,6625
100 + 20	,87448	—	16,74	114,92	1,82	87,00	,8833	100 + 70	,92439	—	58,58	154,04	4,54	64,92	,6591
21	,87592	—	17,57	115,69	1,88	86,42	,8774	71	,92505	—	59,41	154,83	4,58	64,59	,6557
22	,87735	—	18,41	116,46	1,95	85,85	,8717	72	,92571	—	60,25	155,63	4,62	64,26	,6524
23	,87876	—	19,25	117,22	2,03	85,29	,8660	73	,92634	—	61,09	156,43	4,66	63,93	,6491
24	,88014	—	20,09	117,99	2,10	84,73	,8603	74	,92698	—	61,93	157,22	4,71	63,61	,6458
100 + 25	,88149	—	20,93	118,76	2,17	84,18	,8548	100 + 75	,92764	—	62,76	158,02	4,74	63,29	,6425
26	,88281	—	21,76	119,53	2,23	83,64	,8493	76	,92827	—	63,60	158,81	4,79	62,97	,6393
27	,88412	—	22,59	120,31	2,28	83,11	,8439	77	,92888	—	64,44	159,61	4,83	62,65	,6361
28	,88540	—	23,44	121,08	2,36	82,58	,8385	78	,92951	—	65,27	160,40	4,87	62,34	,6330
29	,88665	—	24,27	121,86	2,41	82,05	,8332	79	,93009	—	66,11	161,20	4,91	62,04	,6298
100 + 30	,88789	—	25,11	122,64	2,47	81,53	,8279	100 + 80	,93068	—	66,96	162,00	4,96	61,73	,6267
31	,88911	—	25,94	123,41	2,53	81,03	,8227	81	,93127	—	67,78	162,79	4,99	61,43	,6237
32	,89032	—	26,78	124,19	2,59	80,52	,8176	82	,93185	—	68,62	163,59	5,03	61,13	,6207
33	,89151	—	27,62	124,96	2,66	80,02	,8125	83	,93243	—	69,46	164,39	5,07	60,83	,6176
34	,89267	—	28,45	125,74	2,71	79,53	,8075	84	,93299	—	70,30	165,19	5,11	60,54	,6146
100 + 35	,89380	—	29,29	126,51	2,78	79,04	,8025	100 + 85	,93354	—	71,14	165,99	5,15	60,24	,6116
36	,89494	—	30,13	127,29	2,84	78,56	,7976	86	,93409	—	71,97	166,79	5,18	59,96	,6088
37	,89604	—	30,97	128,06	2,91	78,08	,7928	87	,93463	—	72,81	167,59	5,22	59,67	,6059
38	,89713	—	31,81	128,84	2,97	77,61	,7880	88	,93516	—	73,64	168,39	5,25	59,39	,6030
39	,89820	—	32,63	129,63	3,00	77,14	,7833	89	,93569	—	74,48	169,19	5,29	59,11	,6001
100 + 40	,89925	—	33,48	130,41	3,07	76,68	,7785	100 + 90	,93621	—	75,32	169,99	5,33	58,83	,5972
41	,90029	—	34,32	131,19	3,13	76,22	,7740	91	,93672	—	76,15	170,80	5,35	58,55	,5945
42	,90132	—	35,15	131,97	3,18	75,77	,7694	92	,93722	—	77,09	171,60	5,39	58,28	,5917
43	,90233	—	35,99	132,75	3,24	75,33	,7649	93	,93772	—	77,82	172,40	5,42	58,01	,5890
44	,90333	—	36,82	133,53	3,29	74,89	,7604	94	,93821	—	78,66	173,20	5,46	57,74	,5863
100 + 45	,90431	—	37,66	134,31	3,35	74,46	,7559	100 + 95	,93870	—	79,50	174,00	5,50	57,47	,5835
46	,90527	—	38,49	135,09	3,40	74,02	,7517	96	,93918	—	80,33	174,80	5,53	57,21	,5809
47	,90622	—	39,33	135,87	3,46	73,60	,7473	97	,93965	—	81,16	175,60	5,56	56,95	,5783
48	,90715	—	40,17	136,66	3,51	73,18	,7431	98	,94012	—	82,00	176,40	5,60	56,69	,5756
49	,90807	—	41,01	137,44	3,57	72,75	,7388	99	,94059	—	82,84	177,21	5,63	56,43	,5730



TABLE II.

HEAT 33°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,94105	100	83,69	178,02	5,67	56,16	,5703	100 + 50	,96635	100	167,38	260,02	7,36	38,45	,3904
99	,94149	—	84,54	178,84	5,70	55,91	,5677	49	,96687	—	170,79	263,43	7,36	37,96	,3855
98	,94194	—	85,41	179,68	5,73	55,65	,5651	48	,96738	—	174,35	266,97	7,38	37,46	,3803
97	,94239	—	86,28	180,53	5,75	55,39	,5624	47	,96790	—	178,06	270,66	7,40	36,95	,3752
96	,94284	—	87,19	181,39	5,80	55,13	,5598	46	,96841	—	181,93	274,51	7,42	36,43	,3699
100 + 95	,94329	—	88,10	182,27	5,83	54,85	,5570	100 + 45	,96890	—	185,97	278,56	7,41	35,90	,3645
94	,94374	—	89,03	183,18	5,85	54,59	,5543	44	,96940	—	190,20	282,78	7,42	35,36	,3590
93	,94420	—	89,99	184,10	5,89	54,32	,5515	43	,96989	—	194,63	287,20	7,43	34,81	,3535
92	,94466	—	90,97	185,04	5,93	54,04	,5487	42	,97037	—	199,26	291,85	7,41	34,26	,3479
91	,94513	—	91,97	186,02	5,95	53,76	,5459	41	,97085	—	204,11	296,71	7,40	33,70	,3422
100 + 90	,94560	—	92,99	187,00	5,99	53,48	,5429	100 + 40	,97132	—	209,22	301,82	7,40	33,13	,3364
89	,94609	—	94,03	188,01	6,02	53,19	,5401	39	,97178	—	214,59	307,20	7,39	32,55	,3305
88	,94658	—	95,10	189,05	6,05	52,90	,5371	38	,97223	—	220,23	312,87	7,36	31,96	,3245
87	,94708	—	96,20	190,10	6,10	52,60	,5341	37	,97269	—	226,19	318,87	7,32	31,36	,3184
86	,94758	—	97,31	191,19	6,12	52,31	,5311	36	,97315	—	232,47	325,19	7,28	30,75	,3122
100 + 85	,94808	—	98,47	192,29	6,18	52,00	,5280	100 + 35	,97359	—	239,11	331,85	7,26	30,13	,3059
84	,94859	—	99,64	193,43	6,21	51,70	,5249	34	,97404	—	246,15	338,92	7,23	29,51	,2996
83	,94910	—	100,83	194,59	6,24	51,39	,5218	33	,97450	—	253,60	346,43	7,17	28,87	,2931
82	,94960	—	102,06	195,78	6,28	51,08	,5186	32	,97495	—	261,53	354,41	7,12	28,22	,2865
81	,95011	—	103,32	197,00	6,32	50,77	,5154	31	,97541	—	269,97	362,90	7,07	27,56	,2798
100 + 80	,95062	—	104,61	198,26	6,35	50,45	,5121	100 + 30	,97588	—	278,96	371,94	7,02	26,89	,2730
79	,95114	—	105,94	199,54	6,40	50,11	,5088	29	,97634	—	288,58	381,61	6,97	26,20	,2661
78	,95165	—	107,30	200,86	6,44	49,78	,5044	28	,97681	—	298,90	392,00	6,90	25,51	,2590
77	,95217	—	108,69	202,22	6,47	49,46	,5020	27	,97728	—	309,66	403,14	6,82	24,80	,2519
76	,95268	—	110,13	203,61	6,52	49,11	,4986	26	,97776	—	321,88	415,15	6,73	24,09	,2446
100 + 75	,95319	—	111,59	205,04	6,55	48,77	,4952	100 + 25	,97825	—	334,77	428,12	6,65	23,36	,2371
74	,95370	—	113,09	206,52	6,57	48,42	,4917	24	,97874	—	348,71	442,16	6,55	22,61	,2296
73	,95421	—	114,64	208,03	6,61	48,07	,4881	23	,97925	—	363,86	457,43	6,43	21,86	,2220
72	,95472	—	116,24	209,59	6,65	47,71	,4845	22	,97978	—	381,40	474,08	6,32	21,09	,2142
71	,95522	—	117,87	211,19	6,68	47,35	,4808	21	,98033	—	398,52	492,30	6,22	20,31	,2062
100 + 70	,95574	—	119,55	212,83	6,72	46,99	,4770	100 + 20	,98090	—	418,45	512,36	6,09	19,52	,1981
69	,95626	—	121,28	214,53	6,75	46,61	,4732	19	,98146	—	440,48	534,51	5,97	18,71	,1899
68	,95680	—	123,07	216,28	6,79	46,23	,4695	18	,98206	—	464,94	559,14	5,80	17,88	,1816
67	,95733	—	124,91	218,09	6,82	45,85	,4656	17	,98269	—	492,30	586,63	5,67	17,05	,1731
66	,95787	—	126,80	219,94	6,86	45,47	,4616	16	,98334	—	523,06	617,55	5,51	16,19	,1644
100 + 65	,95840	—	128,75	221,85	6,90	45,08	,4576	100 + 15	,98403	—	557,93	652,59	5,34	15,33	,1556
64	,95895	—	130,77	223,83	6,94	44,68	,4536	14	,98475	—	597,79	692,62	5,17	14,43	,1466
63	,95949	—	132,83	225,86	6,97	44,27	,4495	13	,98550	—	643,77	738,79	4,98	13,54	,1375
62	,96004	—	134,97	227,97	7,00	43,86	,4453	12	,98630	—	697,42	792,62	4,80	12,62	,1281
61	,96058	—	137,19	230,14	7,05	43,45	,4411	11	,98715	—	760,83	856,23	4,60	11,68	,1186
100 + 60	,96112	—	139,48	232,41	7,07	43,03	,4369	100 + 10	,98804	—	836,90	932,54	4,36	10,72	,1089
59	,96166	—	141,84	234,73	7,11	42,60	,4325	9	,98898	—	929,90	1025,75	4,15	9,75	,0990
58	,96219	—	144,28	237,14	7,14	42,17	,4281	8	,98999	—	1046,13	1142,23	3,90	8,75	,0889
57	,96272	—	146,82	239,65	7,17	41,73	,4236	7	,99100	—	1195,59	1291,92	3,67	7,74	,0786
56	,96325	—	149,45	242,24	7,21	41,28	,4192	6	,99220	—	1394,86	1491,43	3,43	6,70	,0681
100 + 55	,96377	—	152,16	244,92	7,24	40,83	,4145	100 + 5	,99340	—	1673,83	1770,67	3,16	5,64	,0573
54	,96429	—	154,95	247,70	7,25	40,37	,4099	4	,99471	—	2092,26	2189,41	2,85	4,56	,0464
53	,96481	—	157,87	250,60	7,27	39,90	,4051	3	,99610	—	2789,69	2887,10	2,59	3,46	,0352
52	,96533	—	160,92	253,62	7,30	39,43	,4003	2	,99759	—	4184,53	4282,19	2,34	2,34	,0237
51	,96584	—	164,08	256,76	7,32	38,94	,3954	1	,99918	—	8369,04	8466,95	2,09	1,18	,0120

TABLE I.

HEAT 34°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of Bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83717	100	—	100,00	—	100,00	1,0147	100 + 50	,90853	100	41,82	138,22	3,60	72,35	,7342
1	,83949	—	0,84	100,72	0,12	99,28	1,0076	51	,90943	—	42,65	139,00	3,65	71,94	,7301
2	,84174	—	1,68	101,45	0,23	98,57	1,0004	52	,91029	—	43,49	139,79	3,70	71,53	,7259
3	,84395	—	2,51	102,18	0,33	97,87	,9932	53	,91115	—	44,33	140,58	3,75	71,13	,7219
4	,84608	—	3,35	102,91	0,44	97,18	,9861	54	,91200	—	45,17	141,37	3,80	70,74	,7179
100 + 5	,84815	—	4,19	103,64	0,55	96,49	,9791	100 + 55	,91283	—	46,01	142,15	3,86	70,35	,7138
6	,85017	—	5,03	104,38	0,65	95,80	,9722	56	,91365	—	46,84	142,94	3,90	69,96	,7100
7	,85213	—	5,86	105,12	0,74	95,13	,9654	57	,91446	—	47,67	143,73	3,94	69,57	,7061
8	,85405	—	6,70	105,87	0,83	94,46	,9586	58	,91525	—	48,51	144,52	3,99	69,19	,7021
9	,85593	—	7,53	106,61	0,92	93,80	,9519	59	,91603	—	49,34	145,31	4,03	68,82	,6983
100 + 10	,85774	—	8,37	107,36	1,01	93,14	,9452	100 + 60	,91681	—	50,18	146,10	4,08	68,44	,6945
11	,85954	—	9,20	108,11	1,09	92,50	,9386	61	,91758	—	51,02	146,89	4,13	68,07	,6908
12	,86131	—	10,04	108,86	1,18	91,86	,9321	62	,91833	—	51,86	147,68	4,18	67,71	,6871
13	,86302	—	10,88	109,61	1,27	91,23	,9257	63	,91907	—	52,69	148,47	4,22	67,35	,6834
14	,86470	—	11,71	110,37	1,34	90,61	,9194	64	,91979	—	53,53	149,27	4,26	66,99	,6798
100 + 15	,86635	—	12,55	111,13	1,42	89,99	,9131	100 + 65	,92051	—	54,37	150,06	4,31	66,64	,6763
16	,86794	—	13,39	111,89	1,50	89,38	,9069	66	,92122	—	55,20	150,85	4,35	66,29	,6727
17	,86951	—	14,22	112,64	1,58	88,77	,9008	67	,92192	—	56,04	151,65	4,39	65,94	,6692
18	,87105	—	15,06	113,40	1,66	88,17	,8948	68	,92261	—	56,88	152,44	4,44	65,60	,6657
19	,87255	—	15,89	114,16	1,73	87,58	,8888	69	,92329	—	57,71	153,23	4,48	65,26	,6622
100 + 20	,87402	—	16,73	114,93	1,80	87,00	,8829	100 + 70	,92397	—	58,55	154,03	4,52	64,92	,6588
21	,87547	—	17,56	115,69	1,87	86,42	,8770	71	,92464	—	59,38	154,82	4,56	64,59	,6554
22	,87690	—	18,40	116,46	1,94	85,85	,8712	72	,92530	—	60,22	155,62	4,60	64,26	,6521
23	,87831	—	19,24	117,23	2,01	85,30	,8656	73	,92593	—	61,05	156,41	4,64	63,93	,6488
24	,87969	—	20,08	118,00	2,08	84,74	,8599	74	,92657	—	61,90	157,21	4,69	63,61	,6455
100 + 25	,88104	—	20,92	118,76	2,16	84,19	,8543	100 + 75	,92722	—	62,73	158,00	4,73	63,29	,6422
26	,88237	—	21,74	119,54	2,20	83,65	,8489	76	,92785	—	63,56	158,80	4,76	62,97	,6390
27	,88368	—	22,58	120,31	2,27	83,11	,8435	77	,92846	—	64,41	159,60	4,81	62,65	,6358
28	,88495	—	23,42	121,08	2,34	82,58	,8381	78	,92908	—	65,23	160,39	4,84	62,34	,6327
29	,88621	—	24,26	121,85	2,41	82,06	,8328	79	,92968	—	66,07	161,19	4,88	62,04	,6295
100 + 30	,88745	—	25,09	122,64	2,45	81,54	,8275	100 + 80	,93027	—	66,92	161,98	4,94	61,73	,6265
31	,88867	—	25,93	123,41	2,52	81,03	,8223	81	,93086	—	67,74	162,77	4,97	61,43	,6234
32	,88988	—	26,77	124,18	2,59	80,53	,8172	82	,93144	—	68,58	163,57	5,01	61,13	,6204
33	,89107	—	27,61	124,96	2,65	80,03	,8121	83	,93202	—	69,42	164,37	5,05	60,83	,6173
34	,89223	—	28,44	125,73	2,71	79,53	,8071	84	,93259	—	70,26	165,17	5,09	60,54	,6143
100 + 35	,89337	—	29,28	126,51	2,77	79,04	,8021	100 + 85	,93314	—	71,10	165,97	5,13	60,25	,6114
36	,89451	—	30,12	127,29	2,83	78,56	,7972	86	,93369	—	71,93	166,77	5,16	59,96	,6085
37	,89561	—	30,95	128,06	2,89	78,08	,7924	87	,93423	—	72,77	167,57	5,20	59,68	,6056
38	,89670	—	31,79	128,83	2,96	77,61	,7876	88	,93476	—	73,60	168,37	5,23	59,39	,6027
39	,89777	—	32,62	129,62	3,00	77,14	,7829	89	,93529	—	74,44	169,17	5,27	59,11	,5998
100 + 40	,89882	—	33,46	130,40	3,06	76,68	,7782	100 + 90	,93581	—	75,28	169,97	5,31	58,83	,5970
41	,89986	—	34,30	131,18	3,12	76,23	,7736	91	,93632	—	76,11	170,78	5,33	58,55	,5942
42	,90089	—	35,13	131,96	3,17	75,78	,7690	92	,93682	—	76,95	171,58	5,37	58,28	,5914
43	,90190	—	35,97	132,74	3,23	75,34	,7645	93	,93732	—	77,78	172,38	5,40	58,01	,5887
44	,90290	—	36,80	133,52	3,28	74,89	,7600	94	,93781	—	78,62	173,18	5,44	57,74	,5860
100 + 45	,90388	—	37,64	134,30	3,34	74,46	,7556	100 + 95	,93830	—	79,46	173,98	5,48	57,47	,5833
46	,90484	—	38,47	135,08	3,39	74,03	,7513	96	,93878	—	80,28	174,78	5,50	57,22	,5806
47	,90579	—	39,31	135,86	3,45	73,60	,7469	97	,93925	—	81,12	175,58	5,54	56,95	,5780
48	,90672	—	40,15	136,65	3,50	73,18	,7427	98	,93972	—	81,95	176,38	5,57	56,69	,5754
49	,90764	—	40,98	137,43	3,55	72,76	,7384	99	,94019	—	82,80	177,19	5,61	56,44	,5728

TABLE II.

HEAT 34°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.94065	100	83.64	178.00	5.64	56.17	.5701	100 + 50	.96607	100	107.28	259.96	7.32	38.46	.3903
99	.94110	—	84.49	178.82	5.67	55.92	.5674	49	.96660	—	170.70	263.37	7.33	37.97	.3853
98	.94154	—	85.30	179.66	5.70	55.66	.5648	48	.96711	—	174.25	266.90	7.35	37.47	.3802
97	.94199	—	86.23	180.51	5.72	55.39	.5621	47	.96764	—	177.96	270.59	7.37	36.96	.3751
96	.94244	—	87.14	181.37	5.77	55.13	.5595	46	.96815	—	181.83	274.44	7.39	36.44	.3698
100 + 95	.94289	—	88.05	182.25	5.80	54.86	.5568	100 + 45	.96865	—	185.87	278.48	7.39	35.91	.3644
94	.94335	—	88.98	183.15	5.82	54.59	.5540	44	.96915	—	190.09	282.70	7.39	35.37	.3589
93	.94381	—	89.84	184.07	5.87	54.33	.5512	43	.96965	—	194.52	287.12	7.40	34.82	.3534
92	.94427	—	90.92	185.02	5.90	54.05	.5484	42	.97013	—	199.15	291.76	7.39	34.27	.3478
91	.94475	—	91.92	186.00	5.92	53.77	.5456	41	.97062	—	204.00	296.62	7.38	33.71	.3421
100 + 90	.94522	—	92.94	186.98	5.96	53.48	.5427	100 + 40	.97110	—	209.10	301.73	7.37	33.14	.3363
89	.94571	—	93.98	187.99	5.99	53.19	.5399	39	.97156	—	214.47	307.11	7.36	32.56	.3304
88	.94621	—	95.04	189.02	6.02	52.91	.5369	38	.97202	—	220.11	312.78	7.33	31.97	.3245
87	.94671	—	96.14	190.08	6.06	52.61	.5339	37	.97248	—	226.06	318.77	7.29	31.37	.3184
86	.94721	—	97.26	191.16	6.10	52.32	.5309	36	.97294	—	232.34	325.09	7.25	30.76	.3122
100 + 85	.94771	—	98.41	192.26	6.15	52.01	.5278	100 + 35	.97339	—	238.98	331.74	7.24	30.14	.3059
84	.94822	—	99.58	193.40	6.18	51.71	.5247	34	.97385	—	246.01	338.80	7.21	29.52	.2995
83	.94873	—	100.77	194.56	6.21	51.40	.5216	33	.97432	—	253.46	346.31	7.15	28.88	.2930
82	.94923	—	102.00	195.75	6.25	51.08	.5184	32	.97478	—	261.38	354.28	7.10	28.23	.2864
81	.94974	—	103.26	196.97	6.29	50.77	.5152	31	.97525	—	269.82	362.77	7.05	27.57	.2797
100 + 80	.95025	—	104.55	198.23	6.32	50.45	.5119	100 + 30	.97572	—	278.80	371.80	7.00	26.90	.2729
79	.95077	—	105.88	199.51	6.37	50.12	.5086	29	.97619	—	288.42	381.47	6.95	26.21	.2660
78	.95128	—	107.24	200.83	6.41	49.79	.5052	28	.97667	—	298.73	391.85	6.88	25.52	.2590
77	.95180	—	108.63	202.19	6.44	49.46	.5018	27	.97715	—	309.79	402.99	6.80	24.81	.2518
76	.95231	—	110.07	203.58	6.49	49.12	.4984	26	.97763	—	321.70	414.99	6.71	24.10	.2445
100 + 75	.95283	—	111.53	205.01	6.52	48.78	.4950	100 + 25	.97813	—	334.58	427.95	6.63	23.37	.2371
74	.95334	—	113.02	206.49	6.53	48.43	.4915	24	.97864	—	348.51	441.97	6.54	22.62	.2296
73	.95385	—	114.57	207.99	6.58	48.08	.4879	23	.97916	—	363.66	457.23	6.43	21.87	.2219
72	.95436	—	116.17	209.55	6.62	47.72	.4843	22	.97970	—	381.18	473.87	6.31	21.10	.2141
71	.95486	—	117.80	211.10	6.64	47.36	.4806	21	.98026	—	398.30	492.07	6.23	20.32	.2062
100 + 70	.95538	—	119.48	212.80	6.68	46.99	.4768	100 + 20	.98083	—	418.21	512.12	6.09	19.53	.1981
69	.95591	—	121.21	214.50	6.71	46.62	.4730	19	.98141	—	440.23	534.26	5.97	18.72	.1899
68	.95645	—	123.00	216.24	6.76	46.24	.4693	18	.98201	—	464.68	558.87	5.81	17.89	.1816
67	.95698	—	124.84	218.05	6.79	45.86	.4654	17	.98265	—	492.02	586.34	5.68	17.06	.1731
66	.95751	—	126.73	219.90	6.83	45.47	.4615	16	.98331	—	522.77	617.24	5.53	16.20	.1644
100 + 65	.95806	—	128.68	221.81	6.87	45.08	.4575	100 + 15	.98400	—	557.62	652.26	5.36	15.33	.1556
64	.95861	—	130.69	223.79	6.90	44.69	.4535	14	.98473	—	597.45	692.27	5.18	14.44	.1466
63	.95916	—	132.76	225.82	6.94	44.28	.4494	13	.98549	—	643.41	738.41	5.00	13.54	.1374
62	.95971	—	134.90	227.92	6.98	43.87	.4451	12	.98629	—	697.03	792.21	4.82	12.62	.1281
61	.96026	—	137.11	230.10	7.01	43.46	.4409	11	.98714	—	760.40	855.78	4.62	11.69	.1186
100 + 60	.96080	—	139.40	232.30	7.04	43.04	.4367	100 + 10	.98804	—	836.43	932.04	4.39	10.73	.1089
59	.96134	—	141.76	234.68	7.08	42.61	.4324	9	.98898	—	929.37	1025.20	4.17	9.75	.0990
58	.96187	—	144.20	237.09	7.11	42.18	.4280	8	.99000	—	1045.54	1141.61	3.93	8.76	.0889
57	.96241	—	146.74	239.60	7.14	41.74	.4235	7	.99107	—	1194.91	1291.21	3.70	7.74	.0786
56	.96294	—	149.36	242.19	7.17	41.29	.4191	6	.99221	—	1394.07	1490.61	3.46	6.71	.0681
100 + 55	.96346	—	152.07	244.87	7.20	40.84	.4144	100 + 5	.99342	—	1672.88	1769.69	3.19	5.65	.0573
54	.96399	—	154.86	247.65	7.21	40.38	.4098	4	.99473	—	2091.08	2188.19	2.89	4.57	.0464
53	.96451	—	157.78	250.55	7.23	39.91	.4050	3	.99612	—	2788.10	2885.49	2.61	3.46	.0352
52	.96504	—	160.82	253.57	7.25	39.44	.4002	2	.99761	—	4182.17	4279.81	2.36	2.34	.0237
51	.96555	—	163.99	256.70	7.29	38.95	.3953	1	.99920	—	8364.32	8464.24	2.08	1.18	.0120

TABLE I.

HEAT 35°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	.83672	100	0,84	100,00	—	100,00	1,0142	100 + 50	.90811	100	41,80	138,21	3,59	72,35	.7338
1	.83904	—	0,84	100,72	0,12	99,28	1,0070	51	.90900	—	42,63	138,99	3,64	71,94	.7297
2	.84129	—	1,67	101,45	0,22	98,57	.9998	52	.90987	—	43,47	139,78	3,69	71,54	.7256
3	.84349	—	2,51	102,18	0,33	97,87	.9926	53	.91073	—	44,30	140,57	3,73	71,14	.7215
4	.84562	—	3,34	102,91	0,43	97,18	.9855	54	.91158	—	45,14	141,36	3,78	70,74	.7175
100 + 5	.84769	—	4,18	103,64	0,54	96,49	.9786	100 + 55	.91241	—	45,98	142,14	3,84	70,35	.7135
6	.84971	—	5,02	104,38	0,64	95,80	.9716	56	.91323	—	46,81	142,93	3,88	69,96	.7096
7	.85167	—	5,85	105,12	0,73	95,13	.9648	57	.91404	—	47,65	143,72	3,93	69,58	.7057
8	.85359	—	6,69	105,87	0,82	94,46	.9580	58	.91483	—	48,49	144,51	3,98	69,20	.7018
9	.85547	—	7,52	106,61	0,91	93,80	.9513	59	.91561	—	49,32	145,30	4,02	68,82	.6980
100 + 10	.85729	—	8,36	107,36	1,00	93,14	.9447	100 + 60	.91640	—	50,16	146,09	4,07	68,45	.6942
11	.85908	—	9,20	108,11	1,09	92,50	.9381	61	.91716	—	50,99	146,88	4,11	68,08	.6905
12	.86083	—	10,03	108,86	1,17	91,86	.9316	62	.91791	—	51,83	147,67	4,16	67,72	.6868
13	.86255	—	10,87	109,61	1,26	91,23	.9252	63	.91865	—	52,67	148,46	4,21	67,36	.6831
14	.86423	—	11,70	110,37	1,33	90,61	.9189	64	.91937	—	53,50	149,26	4,24	67,00	.6795
100 + 15	.86587	—	12,54	111,13	1,41	89,99	.9126	100 + 65	.92009	—	54,34	150,05	4,29	66,65	.6760
16	.86747	—	13,38	111,89	1,49	89,38	.9064	66	.92080	—	55,17	150,84	4,33	66,30	.6724
17	.86904	—	14,21	112,65	1,56	88,77	.9003	67	.92150	—	56,01	151,64	4,37	65,95	.6689
18	.87058	—	15,05	113,41	1,64	88,17	.8943	68	.92219	—	56,85	152,43	4,42	65,60	.6654
19	.87209	—	15,88	114,17	1,71	87,58	.8883	69	.92287	—	57,68	153,22	4,46	65,26	.6619
200 + 20	.87357	—	16,72	114,94	1,78	87,00	.8824	100 + 70	.92355	—	58,52	154,02	4,50	64,93	.6585
21	.87502	—	17,55	115,70	1,85	86,43	.8766	71	.92422	—	59,35	154,81	4,54	64,60	.6551
22	.87645	—	18,39	116,46	1,93	85,86	.8708	72	.92488	—	60,19	155,61	4,58	64,27	.6518
23	.87786	—	19,23	117,23	2,00	85,30	.8651	73	.92552	—	61,02	156,40	4,62	63,94	.6485
24	.87924	—	20,06	118,00	2,06	84,74	.8595	74	.92616	—	61,86	157,20	4,66	63,62	.6452
100 + 25	.88059	—	20,90	118,77	2,13	84,19	.8539	100 + 75	.92680	—	62,70	157,99	4,71	63,30	.6419
26	.88192	—	21,73	119,54	2,19	83,65	.8484	76	.92743	—	63,53	158,79	4,74	62,98	.6387
27	.88323	—	22,57	120,31	2,26	83,12	.8430	77	.92805	—	64,37	159,59	4,78	62,66	.6355
28	.88451	—	23,41	121,08	2,33	82,59	.8376	78	.92866	—	65,20	160,38	4,82	62,35	.6324
29	.88577	—	24,24	121,85	2,39	82,06	.8323	79	.92926	—	66,04	161,18	4,86	62,05	.6293
100 + 30	.88701	—	25,08	122,63	2,45	81,54	.8270	100 + 80	.92986	—	66,88	161,97	4,91	61,74	.6262
31	.88823	—	25,91	123,40	2,51	81,04	.8218	81	.93045	—	67,71	162,76	4,95	61,44	.6231
32	.88944	—	26,75	124,18	2,57	80,53	.8167	82	.93103	—	68,55	163,56	4,99	61,14	.6201
33	.89063	—	27,59	124,95	2,64	80,03	.8117	83	.93161	—	69,38	164,36	5,02	60,84	.6170
34	.89179	—	28,42	125,73	2,69	79,54	.8067	84	.93218	—	70,22	165,16	5,06	60,55	.6140
100 + 35	.89294	—	29,26	126,50	2,76	79,05	.8017	100 + 85	.93274	—	71,06	165,95	5,11	60,26	.6111
36	.89407	—	30,10	127,28	2,82	78,57	.7968	86	.93329	—	71,89	166,75	5,14	59,97	.6082
37	.89517	—	30,93	128,05	2,88	78,09	.7920	87	.93383	—	72,73	167,55	5,18	59,68	.6053
38	.89626	—	31,77	128,83	2,94	77,62	.7872	88	.93436	—	73,56	168,35	5,21	59,40	.6024
39	.89733	—	32,60	129,61	2,99	77,15	.7825	89	.93489	—	74,40	169,15	5,25	59,12	.5995
100 + 40	.89839	—	33,44	130,39	3,05	76,69	.7778	100 + 90	.93541	—	75,24	169,95	5,29	58,84	.5967
41	.89943	—	34,27	131,17	3,10	76,24	.7732	91	.93592	—	76,07	170,76	5,31	58,56	.5939
42	.90046	—	35,11	131,95	3,16	75,79	.7686	92	.93642	—	76,91	171,56	5,35	58,29	.5911
43	.90147	—	35,95	132,73	3,22	75,34	.7641	93	.93692	—	77,74	172,36	5,38	58,02	.5884
44	.90247	—	36,78	133,51	3,27	74,90	.7596	94	.93741	—	78,58	173,16	5,42	57,75	.5857
100 + 45	.90345	—	37,62	134,29	3,33	74,47	.7552	100 + 95	.93790	—	79,42	173,96	5,46	57,48	.5830
46	.90441	—	38,45	135,07	3,38	74,04	.7509	96	.93838	—	80,24	174,76	5,48	57,22	.5803
47	.90536	—	39,29	135,86	3,43	73,61	.7466	97	.93885	—	81,07	175,56	5,51	56,96	.5777
48	.90629	—	40,13	136,64	3,49	73,19	.7423	98	.93932	—	81,91	176,36	5,55	56,70	.5751
49	.90721	—	40,96	137,42	3,54	72,77	.7380	99	.93979	—	82,75	177,17	5,58	56,44	.5725

TABLE II.

HEAT 35°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.94025	100	83.60	177.98	5.62	56.18	.5698	100 + 50	.96579	100	167.19	259.91	7.28	38.47	.3902
99	.94070	—	84.45	178.80	5.65	55.93	.5672	49	.96632	—	170.61	263.30	7.31	37.98	.3852
98	.94115	—	85.31	179.64	5.67	55.67	.5646	48	.96684	—	174.16	266.83	7.33	37.48	.3801
97	.94159	—	86.19	180.49	5.70	55.40	.5619	47	.96737	—	177.86	270.52	7.34	36.97	.3750
96	.94204	—	87.09	181.35	5.74	55.14	.5593	46	.96789	—	181.73	274.37	7.36	36.45	.3697
100 + 95	.94249	—	88.00	182.23	5.77	54.87	.5566	100 + 45	.96840	—	185.77	278.40	7.37	35.92	.3643
94	.94295	—	88.93	183.13	5.80	54.60	.5538	44	.96890	—	189.99	282.62	7.37	35.38	.3588
93	.94342	—	89.89	184.05	5.84	54.33	.5510	43	.96940	—	194.41	287.04	7.37	34.83	.3533
92	.94389	—	90.87	185.00	5.87	54.05	.5482	42	.96989	—	199.04	291.67	7.37	34.28	.3477
91	.94436	—	91.87	185.97	5.90	53.77	.5454	41	.97038	—	203.89	296.53	7.36	33.72	.3420
100 + 90	.94484	—	92.89	186.95	5.94	53.49	.5425	100 + 40	.97086	—	208.99	301.64	7.35	33.15	.3362
89	.94533	—	93.93	187.96	5.97	53.20	.5396	39	.97133	—	214.35	307.02	7.33	32.57	.3303
88	.94583	—	94.99	188.99	6.00	52.91	.5367	38	.97180	—	219.99	312.69	7.30	31.98	.3244
87	.94633	—	96.09	190.05	6.04	52.62	.5337	37	.97226	—	225.94	318.67	7.27	31.38	.3183
86	.94683	—	97.21	191.13	6.08	52.32	.5307	36	.97273	—	232.21	324.98	7.23	30.77	.3121
100 + 85	.94734	—	98.35	192.23	6.12	52.02	.5276	100 + 35	.97319	—	238.85	331.63	7.22	30.15	.3058
84	.94785	—	99.52	193.37	6.15	51.71	.5245	34	.97366	—	245.87	338.68	7.19	29.53	.2995
83	.94835	—	100.72	194.53	6.19	51.40	.5214	33	.97413	—	253.32	346.19	7.13	28.89	.2930
82	.94886	—	101.95	195.72	6.23	51.09	.5182	32	.97460	—	261.24	354.16	7.08	28.24	.2864
81	.94937	—	103.20	196.94	6.26	50.78	.5150	31	.97508	—	269.67	362.63	7.04	27.58	.2797
100 + 80	.94988	—	104.49	198.20	6.29	50.46	.5117	100 + 30	.97556	—	278.65	371.66	6.99	26.91	.2729
79	.95040	—	105.82	199.48	6.34	50.13	.5084	29	.97603	—	288.26	381.33	6.93	26.22	.2660
78	.95091	—	107.18	200.80	6.38	49.80	.5051	28	.97652	—	298.56	391.70	6.86	25.53	.2590
77	.95143	—	108.57	202.16	6.41	49.47	.5017	27	.97701	—	309.62	402.84	6.78	24.82	.2518
76	.95194	—	110.00	203.55	6.45	49.13	.4983	26	.97750	—	321.52	414.83	6.69	24.11	.2445
100 + 75	.95246	—	111.46	204.98	6.48	48.79	.4948	100 + 25	.97801	—	334.39	427.77	6.62	23.38	.2371
74	.95297	—	112.96	206.45	6.51	48.44	.4913	24	.97853	—	348.32	441.79	6.53	22.63	.2296
73	.95348	—	114.51	207.96	6.55	48.09	.4877	23	.97906	—	363.46	457.03	6.43	21.88	.2219
72	.95399	—	116.10	209.52	6.58	47.73	.4841	22	.97961	—	379.97	473.66	6.31	21.11	.2141
71	.95450	—	117.74	211.13	6.61	47.37	.4804	21	.98018	—	398.08	491.85	6.23	20.33	.2062
100 + 70	.95502	—	119.42	212.77	6.65	47.00	.4767	100 + 20	.98076	—	417.98	511.88	6.10	19.54	.1981
69	.95555	—	121.15	214.46	6.69	46.63	.4729	19	.98135	—	439.98	534.01	5.97	18.73	.1899
68	.95609	—	122.93	216.21	6.72	46.25	.4691	18	.98196	—	464.42	558.59	5.83	17.90	.1816
67	.95663	—	124.77	218.01	6.76	45.87	.4652	17	.98260	—	491.74	586.06	5.68	17.06	.1731
66	.95717	—	126.66	219.86	6.80	45.48	.4613	16	.98327	—	522.48	616.94	5.54	16.21	.1644
100 + 65	.95772	—	128.61	221.77	6.84	45.09	.4573	100 + 15	.98397	—	557.31	651.94	5.37	15.34	.1556
64	.95827	—	130.62	223.74	6.88	44.70	.4533	14	.98470	—	597.12	691.92	5.20	14.45	.1466
63	.95882	—	132.69	225.77	6.92	44.29	.4492	13	.98547	—	643.05	738.03	5.02	13.55	.1374
62	.95938	—	134.83	227.88	6.95	43.88	.4450	12	.98628	—	696.64	791.80	4.84	12.63	.1281
61	.95993	—	137.04	230.06	6.98	43.47	.4408	11	.98714	—	759.97	855.33	4.64	11.69	.1186
100 + 60	.96048	—	139.32	232.31	7.01	43.05	.4366	100 + 10	.98804	—	835.96	931.55	4.41	10.73	.1089
59	.96102	—	141.68	234.63	7.05	42.62	.4322	9	.98899	—	928.85	1024.65	4.20	9.76	.0990
58	.96155	—	144.12	237.04	7.08	42.19	.4278	8	.99000	—	1044.95	1140.99	3.96	8.77	.0889
57	.96209	—	146.66	239.55	7.11	41.75	.4234	7	.99108	—	1194.23	1290.51	3.72	7.75	.0786
56	.96262	—	149.28	242.14	7.14	41.30	.4189	6	.99222	—	1393.28	1489.79	3.49	6.71	.0681
100 + 55	.96315	—	151.99	244.82	7.17	40.85	.4143	100 + 5	.99344	—	1671.93	1768.71	3.22	5.65	.0573
54	.96368	—	154.78	247.60	7.18	40.39	.4096	4	.99474	—	2089.91	2186.98	2.93	4.57	.0464
53	.96421	—	157.69	250.50	7.19	39.92	.4049	3	.99613	—	2786.55	2883.90	2.65	3.47	.0352
52	.96474	—	160.73	253.51	7.22	39.45	.4001	2	.99762	—	4179.82	4277.44	2.38	2.34	.0237
51	.96526	—	163.90	256.65	7.25	38.96	.3952	1	.99921	—	8359.64	8457.55	2.09	1.18	.0120



TABLE I.

HEAT 36°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	.83627	100	—	100,00	—	100,00	1,0137	100 + 50	.90768	100	41,78	138,20	3,58	72,36	.7335
1	.83858	—	0,84	100,72	0,12	99,28	1,0065	51	.90857	—	42,61	138,98	3,63	71,95	.7294
2	.84082	—	1,67	101,45	0,22	98,57	.9993	52	.90944	—	43,44	139,77	3,67	71,55	.7253
3	.84303	—	2,51	102,18	0,33	97,87	.9921	53	.91030	—	44,28	140,56	3,72	71,15	.7212
4	.84516	—	3,34	102,91	0,43	97,18	.9850	54	.91115	—	45,12	141,34	3,78	70,75	.7172
100 + 5	.84723	—	4,18	103,64	0,54	96,49	.9780	100 + 55	.91198	—	45,96	142,13	3,83	70,36	.7132
6	.84926	—	5,02	104,38	0,64	95,80	.9711	56	.91280	—	46,78	142,92	3,86	69,97	.7093
7	.85122	—	5,85	105,12	0,73	95,13	.9643	57	.91362	—	47,62	143,71	3,91	69,59	.7054
8	.85314	—	6,69	105,87	0,82	94,46	.9575	58	.91441	—	48,45	144,49	3,97	69,21	.7015
9	.85502	—	7,52	106,61	0,91	93,80	.9508	59	.91519	—	49,29	145,28	4,01	68,83	.6977
100 + 10	.85684	—	8,36	107,36	1,00	93,14	.9442	100 + 60	.91598	—	50,13	146,07	4,06	68,46	.6939
11	.85863	—	9,19	108,11	1,08	92,50	.9377	61	.91674	—	50,96	146,86	4,10	68,09	.6902
12	.86038	—	10,02	108,86	1,16	91,86	.9312	62	.91748	—	51,80	147,66	4,14	67,72	.6865
13	.86210	—	10,86	109,61	1,25	91,23	.9248	63	.91823	—	52,64	148,44	4,20	67,37	.6828
14	.86378	—	11,69	110,37	1,32	90,61	.9185	64	.91895	—	53,47	149,24	4,23	67,00	.6792
100 + 15	.86541	—	12,53	111,13	1,40	89,99	.9122	100 + 65	.91967	—	54,31	150,03	4,28	66,65	.6756
16	.86701	—	13,37	111,89	1,48	89,38	.9060	66	.92039	—	55,14	150,82	4,32	66,30	.6721
17	.86859	—	14,20	112,64	1,56	88,77	.8999	67	.92109	—	55,98	151,62	4,36	65,96	.6686
18	.87013	—	15,04	113,41	1,63	88,17	.8939	68	.92178	—	56,81	152,41	4,40	65,61	.6651
19	.87164	—	15,87	114,17	1,70	87,59	.8879	69	.92245	—	57,64	153,20	4,44	65,27	.6616
100 + 20	.87313	—	16,71	114,94	1,77	87,01	.8819	100 + 70	.92315	—	58,48	154,00	4,48	64,93	.6582
21	.87458	—	17,54	115,70	1,84	86,43	.8761	71	.92381	—	59,31	154,80	4,51	64,61	.6549
22	.87601	—	18,38	116,46	1,92	85,80	.8703	72	.92447	—	60,15	155,59	4,56	64,27	.6515
23	.87742	—	19,22	117,23	1,99	85,30	.8647	73	.92511	—	60,98	156,38	4,60	63,94	.6482
24	.87880	—	20,05	117,99	2,06	84,74	.8591	74	.92576	—	61,82	157,18	4,64	63,62	.6449
100 + 25	.88015	—	20,89	118,77	2,12	84,19	.8535	100 + 75	.92640	—	62,66	157,97	4,69	63,31	.6416
26	.88148	—	21,72	119,53	2,19	83,65	.8480	76	.92702	—	63,50	158,77	4,73	62,98	.6384
27	.88279	—	22,56	120,30	2,26	83,12	.8426	77	.92764	—	64,33	159,57	4,76	62,67	.6352
28	.88407	—	23,40	121,08	2,32	82,59	.8372	78	.92825	—	65,16	160,36	4,80	62,36	.6321
29	.88533	—	24,23	121,85	2,38	82,06	.8319	79	.92885	—	66,00	161,16	4,84	62,05	.6291
100 + 30	.88657	—	25,07	122,63	2,44	81,55	.8266	100 + 80	.92946	—	66,84	161,95	4,89	61,75	.6259
31	.88779	—	25,90	123,40	2,50	81,04	.8214	81	.93005	—	67,67	162,74	4,93	61,45	.6229
32	.88900	—	26,74	124,18	2,56	80,53	.8163	82	.93063	—	68,51	163,54	4,97	61,14	.6199
33	.89019	—	27,58	124,95	2,63	80,03	.8113	83	.93121	—	69,34	164,35	4,99	60,84	.6168
34	.89135	—	28,41	125,72	2,69	79,54	.8063	84	.93178	—	70,18	165,14	5,04	60,56	.6138
100 + 35	.89250	—	29,24	126,50	2,74	79,05	.8013	100 + 85	.93234	—	71,02	165,94	5,08	60,26	.6109
36	.89363	—	30,08	127,27	2,81	78,57	.7965	86	.93289	—	71,85	166,74	5,11	59,97	.6080
37	.89473	—	30,91	128,05	2,86	78,09	.7917	87	.93343	—	72,69	167,54	5,15	59,69	.6051
38	.89582	—	31,75	128,82	2,93	77,62	.7869	88	.93397	—	73,52	168,34	5,18	59,40	.6022
39	.89689	—	32,58	129,60	2,98	77,15	.7821	89	.93450	—	74,36	169,14	5,22	59,12	.5993
100 + 40	.89795	—	33,42	130,38	3,04	76,69	.7775	100 + 90	.93501	—	75,20	169,94	5,26	58,85	.5965
41	.89899	—	34,25	131,16	3,09	76,24	.7728	91	.93553	—	76,02	170,74	5,28	58,57	.5937
42	.90002	—	35,09	131,94	3,15	75,79	.7683	92	.93603	—	76,86	171,54	5,32	58,29	.5909
43	.90103	—	35,93	132,72	3,21	75,34	.7638	93	.93653	—	77,70	172,35	5,35	58,02	.5882
44	.90204	—	36,76	133,50	3,26	74,90	.7593	94	.93702	—	78,53	173,15	5,38	57,75	.5855
100 + 45	.90302	—	37,60	134,28	3,32	74,47	.7549	100 + 95	.93751	—	79,37	173,94	5,43	57,49	.5827
46	.90397	—	38,43	135,06	3,37	74,04	.7505	96	.93799	—	80,19	174,74	5,45	57,23	.5801
47	.90493	—	39,27	135,85	3,42	73,61	.7463	97	.93846	—	81,02	175,54	5,48	56,97	.5775
48	.90586	—	40,10	136,63	3,47	73,19	.7420	98	.93893	—	81,86	176,34	5,52	56,70	.5749
49	.90678	—	40,94	137,41	3,53	72,77	.7377	99	.93939	—	82,70	177,14	5,56	56,45	.5722

TABLE II.

HEAT 36°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and Spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93986	100	83.55	177.95	5.60	56.19	.5696	100 + 50	.96550	100	167.09	259.85	7.24	38.48	.3901
99	.94030	—	84.40	178.77	5.63	55.93	.5669	49	.96604	—	170.51	263.23	7.28	37.99	.3851
98	.94076	—	85.26	179.61	5.65	55.67	.5643	48	.96656	—	174.06	266.76	7.30	37.48	.3800
97	.94120	—	86.14	180.46	5.68	55.41	.5617	47	.96710	—	177.76	270.45	7.31	36.98	.3749
96	.94165	—	87.04	181.32	5.72	55.15	.5591	46	.96762	—	181.63	274.30	7.33	36.46	.3696
100 + 95	.94210	—	87.95	182.20	5.75	54.88	.5563	100 + 45	.96814	—	185.66	278.33	7.33	35.92	.3642
94	.94257	—	88.88	183.11	5.77	54.61	.5536	44	.96864	—	189.88	282.54	7.34	35.39	.3588
93	.94304	—	89.84	184.02	5.82	54.34	.5508	43	.96915	—	194.30	286.96	7.34	34.84	.3533
92	.94351	—	90.82	184.97	5.85	54.06	.5480	42	.96964	—	198.93	291.59	7.34	34.29	.3477
91	.94398	—	91.81	185.94	5.87	53.78	.5452	41	.97014	—	203.77	296.44	7.33	33.73	.3420
100 + 90	.94446	—	92.84	186.92	5.92	53.50	.5423	100 + 40	.97063	—	208.87	301.55	7.32	33.16	.3361
89	.94496	—	93.87	187.94	5.93	53.21	.5394	39	.97110	—	214.23	306.92	7.31	32.58	.3303
88	.94546	—	94.94	188.96	5.98	52.92	.5365	38	.97158	—	219.86	312.59	7.27	31.99	.3243
87	.94596	—	96.04	190.03	6.01	52.63	.5335	37	.97205	—	225.81	318.56	7.25	31.39	.3182
86	.94646	—	97.15	191.11	6.04	52.33	.5305	36	.97253	—	232.08	324.86	7.22	30.78	.3121
100 + 85	.94696	—	98.30	192.21	6.09	52.03	.5274	100 + 35	.97300	—	238.71	331.52	7.19	30.16	.3058
84	.94748	—	99.46	193.34	6.12	51.72	.5243	34	.97347	—	245.73	338.56	7.17	29.54	.2994
83	.94798	—	100.66	194.50	6.16	51.41	.5212	33	.97395	—	253.18	346.06	7.12	28.90	.2929
82	.94849	—	101.89	195.69	6.20	51.09	.5180	32	.97442	—	261.09	354.03	7.06	28.25	.2863
81	.94900	—	103.14	196.91	6.23	50.79	.5148	31	.97491	—	269.52	362.50	7.02	27.59	.2796
100 + 80	.94950	—	104.43	198.17	6.26	50.47	.5115	100 + 30	.97540	—	278.49	371.52	6.97	26.92	.2728
79	.95003	—	105.76	199.45	6.31	50.13	.5082	29	.97587	—	288.10	381.18	6.92	26.23	.2659
78	.95054	—	107.12	200.77	6.35	49.80	.5049	28	.97637	—	298.39	391.55	6.84	25.54	.2589
77	.95106	—	108.51	202.13	6.38	49.47	.5015	27	.97687	—	309.44	402.67	6.77	24.83	.2518
76	.95157	—	109.94	203.52	6.42	49.13	.4981	26	.97737	—	321.34	414.66	6.68	24.11	.2445
100 + 75	.95208	—	111.39	204.94	6.45	48.79	.4946	100 + 25	.97789	—	334.20	427.59	6.61	23.39	.2371
74	.95261	—	112.89	206.41	6.48	48.45	.4911	24	.97841	—	348.12	441.60	6.52	22.64	.2296
73	.95312	—	114.44	207.92	6.52	48.09	.4875	23	.97895	—	363.26	456.83	6.43	21.89	.2219
72	.95364	—	116.03	209.48	6.55	47.73	.4839	22	.97951	—	379.76	473.45	6.31	21.12	.2141
71	.95415	—	117.67	211.09	6.58	47.38	.4803	21	.98009	—	397.86	491.63	6.23	20.34	.2062
100 + 70	.95468	—	119.35	212.73	6.62	47.01	.4765	100 + 20	.98068	—	417.75	511.64	6.11	19.54	.1981
69	.95521	—	121.08	214.42	6.66	46.64	.4728	19	.98128	—	439.73	533.76	5.97	18.73	.1899
68	.95575	—	122.86	216.17	6.69	46.26	.4690	18	.98189	—	464.16	558.32	5.84	17.91	.1816
67	.95629	—	124.7	217.97	6.73	45.88	.4651	17	.98254	—	491.47	585.77	5.70	17.07	.1731
66	.95683	—	126.59	219.82	6.77	45.49	.4612	16	.98322	—	522.19	616.64	5.55	16.21	.1644
100 + 65	.95738	—	128.54	221.73	6.81	45.10	.4572	100 + 15	.98393	—	557.00	651.61	5.39	15.34	.1556
64	.95793	—	130.54	223.70	6.84	44.70	.4532	14	.98466	—	596.79	691.57	5.22	14.46	.1466
63	.95848	—	132.61	225.73	6.88	44.29	.4491	13	.98544	—	642.69	737.65	5.04	13.56	.1374
62	.95904	—	134.75	227.84	6.91	43.89	.4449	12	.98625	—	696.25	791.39	4.86	12.63	.1281
61	.95959	—	136.96	230.01	6.95	43.48	.4407	11	.98712	—	759.55	854.88	4.67	11.70	.1186
100 + 60	.96014	—	139.24	232.26	6.98	43.05	.4364	100 + 10	.98803	—	835.50	931.05	4.45	10.74	.1089
59	.96069	—	141.60	234.59	7.01	42.63	.4321	9	.98898	—	928.33	1024.10	4.23	9.76	.0990
58	.96123	—	144.04	236.99	7.05	42.20	.4277	8	.98999	—	1044.37	1140.38	3.99	8.77	.0889
57	.96177	—	146.58	239.50	7.08	41.76	.4233	7	.99108	—	1193.57	1289.81	3.76	7.75	.0786
56	.96231	—	149.19	242.09	7.10	41.31	.4188	6	.99222	—	1392.51	1488.98	3.53	6.72	.0681
100 + 55	.96283	—	151.90	244.76	7.14	40.85	.4141	100 + 5	.99344	—	1671.01	1767.74	3.27	5.66	.0573
54	.96338	—	154.69	247.55	7.14	40.40	.4095	4	.99475	—	2088.75	2185.78	2.97	4.57	.0464
53	.96391	—	157.60	250.45	7.15	39.93	.4048	3	.99614	—	2785.00	2882.31	2.69	3.47	.0352
52	.96445	—	160.64	253.46	7.18	39.45	.4000	2	.99764	—	4177.50	4275.07	2.43	2.34	.0237
51	.96497	—	163.81	256.59	7.22	38.97	.3951	1	.99923	—	8354.99	8452.87	2.12	1.18	.0120

TABLE I.

HEAT 37°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	.83582	100	—	100,00	—	100,00	1,0131	100 + 50	.90725	100	41,75	138,19	3,56	72,36	.7331
1	.83812	—	0,84	100,72	0,12	99,28	1,0060	51	.90814	—	42,58	138,97	3,61	71,95	.7291
2	.84036	—	1,67	101,45	0,22	98,57	.9988	52	.90901	—	43,42	139,76	3,66	71,55	.7249
3	.84256	—	2,51	102,18	0,33	97,87	.9916	53	.90987	—	44,25	140,55	3,70	71,15	.7208
4	.84470	—	3,34	102,91	0,43	97,18	.9845	54	.91072	—	45,09	141,33	3,76	70,75	.7169
100 + 5	.84677	—	4,18	103,64	0,54	96,49	.9775	100 + 55	.91155	—	45,93	142,12	3,81	70,36	.7129
6	.84880	—	5,01	104,38	0,63	95,80	.9706	56	.91237	—	46,76	142,91	3,85	69,97	.7090
7	.85077	—	5,85	105,12	0,73	95,13	.9638	57	.91320	—	47,59	143,70	3,89	69,59	.7051
8	.85269	—	6,68	105,87	0,81	94,46	.9570	58	.91399	—	48,43	144,48	3,95	69,21	.7012
9	.85458	—	7,51	106,61	0,90	93,80	.9503	59	.91477	—	49,26	145,27	3,99	68,83	.6974
100 + 10	.85639	—	8,35	107,36	0,99	93,15	.9437	100 + 60	.91556	—	50,10	146,06	4,04	68,46	.6936
11	.85818	—	9,19	108,11	1,08	92,50	.9372	61	.91632	—	50,93	146,85	4,08	68,09	.6899
12	.85993	—	10,02	108,86	1,16	91,86	.9307	62	.91706	—	51,77	147,65	4,12	67,73	.6862
13	.86165	—	10,86	109,61	1,25	91,23	.9243	63	.91781	—	52,61	148,43	4,18	67,37	.6825
14	.86333	—	11,69	110,37	1,32	90,61	.9180	64	.91853	—	53,44	149,23	4,21	67,01	.6789
100 + 15	.86496	—	12,53	111,12	1,41	89,99	.9117	100 + 65	.91925	—	54,28	150,02	4,26	66,66	.6753
16	.86656	—	13,37	111,88	1,49	89,38	.9055	66	.91997	—	55,11	150,81	4,30	66,31	.6718
17	.86814	—	14,19	112,64	1,55	88,78	.8994	67	.92068	—	55,95	151,61	4,34	65,96	.6683
18	.86968	—	15,03	113,40	1,63	88,18	.8934	68	.92137	—	56,78	152,40	4,38	65,61	.6648
19	.87120	—	15,86	114,16	1,70	87,59	.8874	69	.92205	—	57,61	153,19	4,42	65,27	.6614
100 + 20	.87268	—	16,70	114,93	1,77	87,01	.8815	100 + 70	.92274	—	58,45	153,99	4,46	64,94	.6579
21	.87413	—	17,53	115,69	1,84	86,43	.8757	71	.92340	—	59,28	154,78	4,50	64,61	.6546
22	.87556	—	18,37	116,45	1,92	85,86	.8699	72	.92406	—	60,11	155,58	4,53	64,28	.6512
23	.87697	—	19,21	117,22	1,99	85,30	.8642	73	.92470	—	60,95	156,37	4,58	63,95	.6479
24	.87835	—	20,04	117,99	2,05	84,75	.8586	74	.92536	—	61,79	157,17	4,62	63,63	.6446
100 + 25	.87971	—	20,88	118,76	2,12	84,20	.8530	100 + 75	.92599	—	62,63	157,96	4,67	63,31	.6414
26	.88103	—	21,71	119,53	2,18	83,66	.8476	76	.92661	—	63,46	158,75	4,71	62,99	.6382
27	.88235	—	22,55	120,30	2,25	83,13	.8422	77	.92723	—	64,29	159,55	4,74	62,67	.6349
28	.88363	—	23,38	121,07	2,31	82,60	.8368	78	.92784	—	65,13	160,34	4,79	62,36	.6318
29	.88489	—	24,22	121,84	2,38	82,07	.8315	79	.92844	—	65,97	161,14	4,83	62,06	.6288
100 + 30	.88613	—	25,05	122,62	2,43	81,55	.8262	100 + 80	.92906	—	66,80	161,93	4,87	61,75	.6256
31	.88735	—	25,88	123,39	2,49	81,05	.8210	81	.92965	—	67,63	162,73	4,90	61,45	.6226
32	.88856	—	26,72	124,17	2,55	80,54	.8159	82	.93023	—	68,47	163,53	4,94	61,15	.6196
33	.88975	—	27,56	124,95	2,61	80,04	.8109	83	.93080	—	69,31	164,33	4,98	60,85	.6166
34	.89091	—	28,39	125,72	2,67	79,55	.8059	84	.93138	—	70,14	165,13	5,01	60,56	.6136
100 + 35	.89205	—	29,23	126,49	2,74	79,06	.8010	100 + 85	.93194	—	70,98	165,92	5,06	60,27	.6106
36	.89318	—	30,07	127,27	2,80	78,58	.7961	86	.93249	—	71,81	166,72	5,09	59,98	.6077
37	.89429	—	30,90	128,04	2,86	78,10	.7913	87	.93303	—	72,65	167,52	5,13	59,70	.6048
38	.89538	—	31,73	128,82	2,91	77,62	.7865	88	.93357	—	73,48	168,32	5,16	59,41	.6019
39	.89645	—	32,56	129,60	2,96	77,16	.7817	89	.93410	—	74,32	169,12	5,20	59,13	.5991
100 + 40	.89750	—	33,40	130,38	3,02	76,70	.7771	100 + 90	.93461	—	75,15	169,92	5,23	58,85	.5962
41	.89855	—	34,23	131,15	3,08	76,25	.7725	91	.93513	—	75,98	170,72	5,26	58,57	.5934
42	.89958	—	35,07	131,93	3,14	75,80	.7679	92	.93563	—	76,82	171,52	5,30	58,30	.5906
43	.90059	—	35,91	132,71	3,20	75,35	.7634	93	.93613	—	77,65	172,33	5,32	58,03	.5879
44	.90160	—	36,74	133,49	3,25	74,91	.7590	94	.93663	—	78,49	173,13	5,36	57,76	.5852
100 + 45	.90259	—	37,57	134,27	3,30	74,48	.7545	100 + 95	.93712	—	79,33	173,93	5,40	57,49	.5825
46	.90353	—	38,41	135,05	3,36	74,04	.7502	96	.93760	—	80,15	174,72	5,43	57,24	.5799
47	.90450	—	39,25	135,84	3,41	73,62	.7460	97	.93807	—	80,98	175,52	5,46	56,97	.5772
48	.90543	—	40,08	136,62	3,46	73,20	.7417	98	.93854	—	81,82	176,32	5,50	56,71	.5746
49	.90635	—	40,92	137,40	3,52	72,78	.7373	99	.93900	—	82,66	177,12	5,54	56,46	.5719



TABLE II.

HEAT 37°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93947	100	83,51	177,93	5,58	56,19	.5694	100 + 50	.96522	100	167,00	259,79	7,21	38,49	.3900
99	.93991	—	84,36	178,75	5,61	55,94	.5667	49	.96575	—	170,41	263,17	7,24	38,00	.3850
98	.94037	—	85,22	179,59	5,63	55,68	.5641	48	.96628	—	173,96	266,69	7,27	37,49	.3799
97	.94082	—	86,10	180,44	5,66	55,42	.5615	47	.96682	—	177,66	270,38	7,28	36,98	.3748
96	.94127	—	86,99	181,30	5,69	55,16	.5588	46	.96734	—	181,53	274,23	7,30	36,46	.3695
100 + 95	.94172	—	87,90	182,18	5,72	54,88	.5561	100 + 45	.96787	—	185,56	278,26	7,30	35,93	.3641
94	.94219	—	88,83	183,08	5,75	54,62	.5534	44	.96838	—	189,77	282,46	7,31	35,40	.3587
93	.94266	—	89,79	184,00	5,79	54,35	.5506	43	.96889	—	194,19	286,89	7,30	34,85	.3532
92	.94313	—	90,77	184,95	5,82	54,06	.5478	42	.96940	—	198,82	291,51	7,31	34,30	.3476
91	.94361	—	91,76	185,91	5,85	53,79	.5450	41	.96989	—	203,66	296,35	7,31	33,74	.3419
100 + 90	.94408	—	92,79	186,90	5,89	53,51	.5421	100 + 40	.97039	—	208,76	301,46	7,30	33,17	.3361
89	.94459	—	93,82	187,91	5,91	53,22	.5392	39	.97087	—	214,11	306,82	7,29	32,59	.3302
88	.94508	—	94,88	188,94	5,94	52,93	.5363	38	.97136	—	219,74	312,49	7,25	32,00	.3242
87	.94558	—	95,98	190,00	5,98	52,64	.5333	37	.97183	—	225,68	318,46	7,22	31,40	.3181
86	.94608	—	97,10	191,08	6,02	52,34	.5303	36	.97232	—	231,95	324,75	7,20	30,79	.3120
100 + 85	.94658	—	98,24	192,18	6,06	52,04	.5272	100 + 35	.97280	—	238,58	331,40	7,18	30,17	.3057
84	.94710	—	99,40	193,31	6,09	51,73	.5241	34	.97328	—	245,59	338,45	7,14	29,55	.2994
83	.94761	—	100,61	194,47	6,14	51,42	.5210	33	.97376	—	253,04	345,93	7,11	28,91	.2929
82	.94812	—	101,84	195,66	6,18	51,10	.5178	32	.97424	—	260,94	353,90	7,04	28,26	.2863
81	.94863	—	103,09	196,88	6,21	50,79	.5146	31	.97473	—	269,37	362,36	7,01	27,60	.2796
100 + 80	.94913	—	104,38	198,14	6,24	50,47	.5113	100 + 30	.97523	—	278,34	371,38	6,96	26,93	.2728
79	.94965	—	105,70	199,42	6,28	50,14	.5080	29	.97571	—	287,94	381,04	6,90	26,24	.2659
78	.95016	—	107,06	200,74	6,32	49,81	.5047	28	.97622	—	298,22	391,40	6,82	25,55	.2589
77	.95068	—	108,45	202,09	6,36	49,48	.5013	27	.97672	—	309,27	402,51	6,76	24,84	.2517
76	.95120	—	109,87	203,49	6,38	49,14	.4979	26	.97723	—	321,16	414,49	6,67	24,12	.2444
100 + 75	.95171	—	111,33	204,91	6,42	48,80	.4944	100 + 25	.97776	—	334,01	427,41	6,60	23,40	.2370
74	.95224	—	112,83	206,38	6,45	48,45	.4909	24	.97829	—	347,93	441,41	6,52	22,65	.2295
73	.95275	—	114,38	207,89	6,49	48,10	.4873	23	.97884	—	363,06	456,63	6,43	21,90	.2219
72	.95328	—	115,97	209,45	6,52	47,74	.4837	22	.97941	—	379,55	473,24	6,31	21,13	.2141
71	.95380	—	117,60	211,06	6,54	47,39	.4801	21	.97999	—	397,64	491,41	6,23	20,35	.2062
100 + 70	.95433	—	119,29	212,69	6,60	47,01	.4763	100 + 20	.98060	—	417,52	511,41	6,11	19,55	.1981
69	.95486	—	121,01	214,39	6,62	46,65	.4726	19	.98120	—	439,49	533,51	5,98	18,74	.1899
68	.95541	—	122,79	216,13	6,66	46,26	.4688	18	.98182	—	463,90	558,06	5,84	17,92	.1816
67	.95595	—	124,63	217,93	6,70	45,88	.4649	17	.98248	—	491,20	585,49	5,71	17,08	.1731
66	.95649	—	126,52	219,78	6,74	45,50	.4610	16	.98316	—	521,90	616,34	5,56	16,22	.1644
100 + 65	.95704	—	128,47	221,69	6,78	45,11	.4570	100 + 15	.98388	—	556,69	651,29	5,40	15,35	.1556
64	.95759	—	130,47	223,66	6,81	44,71	.4530	14	.98462	—	596,46	691,22	5,24	14,46	.1466
63	.95814	—	132,53	225,69	6,84	44,30	.4489	13	.98540	—	642,34	737,27	5,07	13,56	.1374
62	.95870	—	134,68	227,79	6,89	43,90	.4447	12	.98622	—	695,86	790,98	4,88	12,64	.1281
61	.95925	—	136,88	229,97	6,91	43,48	.4405	11	.98709	—	759,13	854,43	4,70	11,70	.1186
100 + 60	.95980	—	139,16	232,22	6,94	43,06	.4363	100 + 10	.98801	—	835,04	930,55	4,49	10,74	.1089
59	.96035	—	141,52	234,54	6,98	42,63	.4319	9	.98896	—	927,82	1023,55	4,27	9,77	.0990
58	.96090	—	143,96	236,94	7,02	42,20	.4275	8	.98998	—	1043,79	1139,77	4,02	8,78	.0889
57	.96144	—	146,49	239,45	7,04	41,76	.4231	7	.99107	—	1192,91	1289,11	3,80	7,76	.0786
56	.96199	—	149,11	242,04	7,07	41,31	.4186	6	.99223	—	1391,74	1488,17	3,57	6,72	.0681
100 + 55	.96252	—	151,81	244,71	7,10	40,86	.4140	100 + 5	.99344	—	1670,09	1766,78	3,31	5,66	.0573
54	.96307	—	154,60	247,49	7,11	40,40	.4093	4	.99475	—	2087,59	2184,58	3,01	4,58	.0464
53	.96361	—	157,51	250,39	7,12	39,93	.4046	3	.99615	—	2783,45	2880,72	2,73	3,47	.0352
52	.96415	—	160,55	253,40	7,15	39,46	.3998	2	.99765	—	4175,18	4272,71	2,47	2,34	.0237
51	.96467	—	163,72	256,52	7,20	38,98	.3949	1	.99924	—	8350,36	8448,20	2,16	1,18	.0120

TABLE I.

HEAT 38°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0,83536	100	—	100,00	—	100,00	1,0126		100 + 50,90682	100	41,73	138,18	3,55	72,37	,7328	
1,83766	—	0,83	100,72	0,11	99,28	1,0054		51,90771	—	42,56	138,96	3,60	71,96	,7287	
2,83990	—	1,67	101,45	0,22	98,57	,9982		52,90858	—	43,39	139,75	3,64	71,56	,7246	
3,84209	—	2,51	102,18	0,33	97,87	,9911		53,90944	—	44,23	140,54	3,69	71,16	,7205	
4,84424	—	3,34	102,01	0,43	97,18	,9840		54,91029	—	45,07	141,32	3,75	70,76	,7165	
100 + 5,84631	—	4,18	103,64	0,54	96,49	,9770		100 + 55,91112	—	45,91	142,11	3,80	70,37	,7125	
6,84834	—	5,01	104,38	0,63	95,80	,9701		56,91194	—	46,73	142,90	3,83	69,98	,7086	
7,85032	—	5,85	105,12	0,73	95,13	,9633		57,91277	—	47,57	143,69	3,88	69,60	,7047	
8,85224	—	6,68	105,86	0,82	94,46	,9565		58,91357	—	48,40	144,47	3,93	69,22	,7009	
9,85413	—	7,51	106,61	0,90	93,80	,9498		59,91435	—	49,24	145,26	3,98	68,84	,6971	
100 + 10,85594	—	8,35	107,36	0,99	93,15	,9432		100 + 60,91513	—	50,07	146,05	4,02	68,47	,6933	
11,85774	—	9,18	108,10	1,08	92,50	,9367		61,91590	—	50,90	146,84	4,06	68,10	,6896	
12,85949	—	10,01	108,86	1,15	91,86	,9302		62,91664	—	51,74	147,63	4,11	67,74	,6859	
13,86121	—	10,85	109,60	1,25	91,23	,9238		63,91739	—	52,58	148,42	4,16	67,38	,6822	
14,86288	—	11,68	110,36	1,32	90,61	,9175		64,91811	—	53,41	149,21	4,20	67,02	,6786	
100 + 15,86451	—	12,52	111,12	1,40	89,99	,9112		100 + 65,91883	—	54,25	150,00	4,25	66,66	,6750	
16,86611	—	13,36	111,88	1,48	89,38	,9051		66,91955	—	55,08	150,79	4,29	66,31	,6715	
17,86769	—	14,19	112,64	1,55	88,78	,8990		67,92027	—	55,92	151,59	4,33	65,97	,6680	
18,86924	—	15,02	113,40	1,62	88,18	,8930		68,92096	—	56,75	152,38	4,37	65,62	,6645	
19,87075	—	15,85	114,16	1,69	87,59	,8870		69,92164	—	57,58	153,17	4,41	65,28	,6611	
100 + 20,87224	—	16,69	114,93	1,76	87,01	,8810		100 + 70,92233	—	58,42	153,97	4,45	64,95	,6576	
21,87369	—	17,52	115,69	1,83	86,43	,8752		71,92300	—	59,25	154,77	4,48	64,62	,6543	
22,87512	—	18,36	116,45	1,91	85,86	,8694		72,92365	—	60,08	155,56	4,52	64,29	,6509	
23,87653	—	19,20	117,22	1,98	85,31	,8638		73,92430	—	60,92	156,35	4,57	63,96	,6470	
24,87791	—	20,03	117,99	2,04	84,75	,8582		74,92495	—	61,75	157,15	4,60	63,64	,6443	
100 + 25,87926	—	20,86	118,76	2,10	84,20	,8526		100 + 75,92558	—	62,59	157,94	4,65	63,32	,6411	
26,88059	—	21,69	119,53	2,16	83,66	,8472		76,92620	—	63,43	158,73	4,70	63,00	,6379	
27,88191	—	22,53	120,30	2,23	83,13	,8418		77,92682	—	64,26	159,53	4,73	62,68	,6340	
28,88319	—	23,37	121,07	2,30	82,60	,8364		78,92743	—	65,09	160,32	4,77	62,37	,6315	
29,88445	—	24,21	121,84	2,37	82,07	,8311		79,92802	—	65,93	161,12	4,81	62,07	,6285	
100 + 30,88569	—	25,04	122,62	2,42	81,56	,8258		100 + 80,92865	—	66,76	161,91	4,85	61,76	,6254	
31,88691	—	25,87	123,39	2,48	81,05	,8206		81,92924	—	67,59	162,71	4,88	61,46	,6223	
32,88812	—	26,71	124,17	2,54	80,54	,8155		82,92982	—	68,43	163,51	4,92	61,16	,6193	
33,88931	—	27,55	124,94	2,61	80,04	,8105		83,93039	—	69,27	164,31	4,96	60,86	,6163	
34,89047	—	28,38	125,71	2,67	79,55	,8055		84,93098	—	70,10	165,11	4,99	60,57	,6133	
100 + 35,89161	—	29,21	126,48	2,73	79,06	,8006		100 + 85,93154	—	70,94	165,90	5,04	60,28	,6103	
36,89274	—	30,05	127,26	2,79	78,58	,7957		86,93209	—	71,77	166,70	5,07	59,99	,6075	
37,89385	—	30,88	128,03	2,85	78,10	,7909		87,93263	—	72,61	167,50	5,11	59,70	,6040	
38,89494	—	31,72	128,81	2,91	77,63	,7861		88,93317	—	73,44	168,30	5,14	59,42	,6017	
39,89600	—	32,54	129,59	2,95	77,16	,7813		89,93370	—	74,28	169,10	5,18	59,14	,5988	
100 + 40,89705	—	33,39	130,37	3,02	76,70	,7767		100 + 90,93421	—	75,11	169,90	5,21	58,86	,5960	
41,89811	—	34,22	131,15	3,07	76,25	,7721		91,93473	—	75,94	170,70	5,24	58,58	,5932	
42,89914	—	35,05	131,93	3,12	75,80	,7675		92,93523	—	76,78	171,50	5,28	58,31	,5904	
43,90015	—	35,89	132,71	3,18	75,35	,7630		93,93573	—	77,61	172,31	5,30	58,04	,5877	
44,90116	—	36,72	133,48	3,24	74,91	,7586		94,93623	—	78,45	173,11	5,34	57,77	,5849	
100 + 45,90215	—	37,55	134,26	3,29	74,48	,7542		100 + 95,93672	—	79,28	173,91	5,37	57,50	,5823	
46,90310	—	38,39	135,05	3,34	74,05	,7499		96,93720	—	80,10	174,70	5,40	57,24	,5796	
47,90407	—	39,22	135,83	3,39	73,62	,7456		97,93767	—	80,93	175,50	5,43	56,98	,5770	
48,90500	—	40,06	136,61	3,45	73,20	,7413		98,93814	—	81,77	176,30	5,47	56,72	,5744	
49,90592	—	40,90	137,39	3,51	72,78	,7370		99,93860	—	82,61	177,10	5,51	56,46	,5717	

TABLE II.

HEAT 38°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93907	100	83.46	177.91	5.55	56.20	.5691	100 + 50	.96493	100	166.91	259.73	7.18	38.50	.3899
99	.93952	—	84.31	178.73	5.58	55.95	.5665	49	.96546	—	170.31	263.10	7.21	38.01	.3849
98	.93998	—	85.17	179.56	5.61	55.69	.5639	48	.96600	—	173.86	266.62	7.24	37.51	.3798
97	.94043	—	86.05	180.41	5.64	55.42	.5613	47	.96654	—	177.56	270.31	7.25	37.00	.3747
96	.94088	—	86.94	181.27	5.67	55.16	.5586	46	.96707	—	181.43	274.16	7.27	36.47	.3694
100 + 95	.94134	—	87.85	182.15	5.70	54.89	.5559	100 + 45	.96760	—	185.46	278.19	7.27	35.94	.3640
94	.94181	—	88.78	183.05	5.73	54.62	.5532	44	.96812	—	189.67	282.39	7.28	35.41	.3586
93	.94228	—	89.74	183.97	5.77	54.36	.5504	43	.96863	—	194.08	286.81	7.27	34.86	.3531
92	.94275	—	90.71	184.92	5.79	54.08	.5476	42	.96915	—	198.71	291.43	7.28	34.31	.3475
91	.94323	—	91.71	185.89	5.82	53.80	.5447	41	.96965	—	203.55	296.27	7.28	33.75	.3418
100 + 90	.94370	—	92.73	186.87	5.86	53.51	.5418	100 + 40	.97015	—	208.64	301.37	7.27	33.18	.3300
89	.94421	—	93.77	187.88	5.89	53.22	.5390	39	.97064	—	213.99	306.73	7.26	32.60	.3301
88	.94470	—	94.83	188.91	5.92	52.93	.5361	38	.97114	—	219.62	312.39	7.23	32.01	.3242
87	.94520	—	95.93	189.97	5.96	52.64	.5331	37	.97162	—	225.55	318.35	7.20	31.41	.3181
86	.94571	—	97.04	191.05	5.99	52.35	.5301	36	.97211	—	231.82	324.64	7.18	30.80	.3119
100 + 85	.94621	—	98.19	192.15	6.04	52.04	.5270	100 + 35	.97260	—	238.45	331.29	7.16	30.18	.3056
84	.94673	—	99.35	193.28	6.07	51.74	.5239	34	.97309	—	245.45	338.33	7.12	29.56	.2993
83	.94724	—	100.55	194.44	6.11	51.43	.5208	33	.97357	—	252.90	345.81	7.09	28.92	.2928
82	.94775	—	101.78	195.63	6.15	51.11	.5176	32	.97406	—	260.80	353.76	7.04	28.27	.2862
81	.94826	—	103.03	196.85	6.18	50.80	.5144	31	.97456	—	269.22	362.23	6.99	27.61	.2795
100 + 80	.94876	—	104.32	198.11	6.21	50.48	.5111	100 + 30	.97506	—	278.19	371.24	6.95	26.94	.2727
79	.94928	—	105.64	199.39	6.25	50.15	.5078	29	.97555	—	287.78	380.89	6.89	26.25	.2658
78	.94979	—	107.00	200.71	6.29	49.82	.5045	28	.97607	—	298.06	391.25	6.81	25.56	.2588
77	.95031	—	108.39	202.06	6.33	49.49	.5011	27	.97658	—	309.10	402.35	6.75	24.85	.2517
76	.95083	—	109.81	203.46	6.35	49.15	.4977	26	.97709	—	320.98	414.32	6.66	24.13	.2444
100 + 75	.95134	—	111.27	204.88	6.39	48.81	.4942	100 + 25	.97763	—	333.82	427.23	6.59	23.41	.2370
74	.95187	—	112.77	206.35	6.42	48.46	.4907	24	.97817	—	347.74	441.22	6.52	22.66	.2295
73	.95239	—	114.32	207.86	6.46	48.11	.4871	23	.97873	—	362.86	456.43	6.43	21.91	.2219
72	.95292	—	115.91	209.41	6.50	47.75	.4835	22	.97931	—	379.34	473.03	6.31	21.14	.2141
71	.95345	—	117.54	211.02	6.52	47.40	.4799	21	.97990	—	397.42	491.19	6.23	20.36	.2061
100 + 70	.95398	—	119.22	212.65	6.57	47.02	.4761	100 + 20	.98052	—	417.29	511.18	6.11	19.56	.1981
69	.95451	—	120.94	214.35	6.59	46.65	.4724	19	.98112	—	439.25	533.26	5.99	18.75	.1898
68	.95506	—	122.72	216.09	6.63	46.27	.4686	18	.98175	—	463.05	557.80	5.85	17.93	.1815
67	.95560	—	124.56	217.89	6.67	45.89	.4647	17	.98242	—	490.93	585.21	5.72	17.09	.1730
66	.95615	—	126.45	219.74	6.71	45.51	.4608	16	.98311	—	521.61	616.04	5.57	16.23	.1643
100 + 65	.95670	—	128.40	221.65	6.75	45.12	.4568	100 + 15	.98383	—	556.38	650.97	5.41	15.36	.1555
64	.95725	—	130.40	223.62	6.78	44.72	.4528	14	.98458	—	596.13	690.87	5.26	14.47	.1466
63	.95780	—	132.46	225.65	6.81	44.31	.4487	13	.98536	—	641.99	736.89	5.10	13.57	.1374
62	.95836	—	134.60	227.74	6.86	43.91	.4446	12	.98619	—	695.48	790.57	4.91	12.65	.1281
61	.95891	—	136.81	229.92	6.89	43.49	.4404	11	.98707	—	758.71	853.99	4.72	11.71	.1186
100 + 60	.95947	—	139.08	232.17	6.91	43.07	.4361	100 + 10	.98799	—	834.58	930.05	4.53	10.75	.1089
59	.96002	—	141.44	234.49	6.95	42.64	.4318	9	.98895	—	927.31	1023.01	4.30	9.77	.0990
58	.96057	—	143.88	236.89	6.99	42.21	.4274	8	.98997	—	1043.22	1139.16	4.06	8.78	.0889
57	.96112	—	146.41	239.40	7.01	41.77	.4230	7	.99107	—	1192.25	1288.41	3.84	7.76	.0786
56	.96167	—	149.03	241.99	7.04	41.32	.4185	6	.99223	—	1390.97	1487.36	3.61	6.72	.0681
100 + 55	.96221	—	151.73	244.66	7.07	40.87	.4139	100 + 5	.99344	—	1609.17	1765.82	3.35	5.66	.0573
54	.96276	—	154.52	247.44	7.08	40.41	.4092	4	.99476	—	2086.44	2183.38	3.06	4.58	.0464
53	.96331	—	157.42	250.33	7.09	39.94	.4045	3	.99616	—	2781.92	2879.13	2.79	3.47	.0352
52	.96385	—	160.46	253.34	7.12	39.47	.3997	2	.99766	—	4172.88	4270.35	2.53	2.34	.0237
51	.96438	—	163.63	256.46	7.17	38.99	.3948	1	.99925	—	8345.76	8443.54	2.22	1.18	.0120

TABLE I.

HEAT 39°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83491	100	—	100,00	—	100,00	1,0120	100 + 50	,90639	100	41,70	138,17	3,53	72,37	,7324
1	,83720	—	0,83	100,72	0,11	99,28	1,0048	51	,90728	—	42,54	138,95	3,59	71,96	,7283
2	,83944	—	1,67	101,45	0,22	98,57	,9976	52	,90815	—	43,37	139,74	3,63	71,56	,7242
3	,84163	—	2,51	102,18	0,33	97,87	,9905	53	,90901	—	44,20	140,53	3,67	71,16	,7201
4	,84378	—	3,34	102,91	0,43	97,18	,9834	54	,90986	—	45,04	141,31	3,73	70,76	,7162
100 + 5	,84585	—	4,18	103,64	0,54	96,49	,9764	100 + 55	,91069	—	45,88	142,10	3,78	70,37	,7122
6	,84788	—	5,01	104,38	0,63	95,80	,9696	56	,91151	—	46,70	142,89	3,81	69,98	,7083
7	,84987	—	5,84	105,12	0,72	95,13	,9628	57	,91234	—	47,54	143,68	3,86	69,60	,7044
8	,85179	—	6,68	105,86	0,82	94,47	,9560	58	,91314	—	48,37	144,46	3,91	69,23	,7006
9	,85368	—	7,50	106,60	0,90	93,80	,9493	59	,91393	—	49,21	145,25	3,96	68,85	,6968
100 + 10	,85550	—	8,34	107,35	0,99	93,15	,9427	100 + 60	,91470	—	50,04	146,04	4,00	68,48	,6929
11	,85730	—	9,18	108,10	1,08	92,51	,9362	61	,91547	—	50,87	146,83	4,04	68,10	,6893
12	,85905	—	10,01	108,85	1,16	91,87	,9297	62	,91622	—	51,71	147,62	4,09	67,74	,6856
13	,86076	—	10,85	109,60	1,25	91,24	,9233	63	,91697	—	52,55	148,41	4,14	67,38	,6819
14	,86243	—	11,68	110,36	1,32	90,62	,9170	64	,91769	—	53,38	149,20	4,18	67,02	,6783
100 + 15	,86406	—	12,51	111,12	1,39	89,99	,9107	100 + 65	,91841	—	54,22	149,99	4,23	66,67	,6747
16	,86566	—	13,35	111,88	1,47	89,38	,9046	66	,91913	—	55,05	150,78	4,27	66,32	,6712
17	,86724	—	14,18	112,64	1,54	88,78	,8985	67	,91985	—	55,89	151,58	4,31	65,97	,6677
18	,86879	—	15,01	113,40	1,61	88,18	,8925	68	,92055	—	56,72	152,37	4,35	65,62	,6642
19	,87030	—	15,85	114,16	1,69	87,59	,8865	69	,92123	—	57,55	153,16	4,39	65,28	,6608
100 + 20	,87179	—	16,68	114,92	1,76	87,01	,8806	100 + 70	,92192	—	58,39	153,96	4,43	64,95	,6573
21	,87324	—	17,52	115,69	1,83	86,44	,8748	71	,92259	—	59,22	154,75	4,47	64,62	,6540
22	,87468	—	18,35	116,45	1,90	85,87	,8690	72	,92325	—	60,05	155,54	4,51	64,29	,6506
23	,87608	—	19,18	117,21	1,97	85,31	,8633	73	,92390	—	60,89	156,34	4,55	63,96	,6473
24	,87746	—	20,02	117,98	2,04	84,75	,8577	74	,92454	—	61,72	157,13	4,59	63,64	,6440
100 + 25	,87882	—	20,85	118,75	2,10	84,20	,8522	100 + 75	,92517	—	62,55	157,92	4,63	63,32	,6408
26	,88015	—	21,68	119,52	2,16	83,66	,8468	76	,92579	—	63,39	158,71	4,68	63,00	,6376
27	,88147	—	22,52	120,29	2,23	83,13	,8414	77	,92641	—	64,23	159,52	4,71	62,68	,6343
28	,88275	—	23,36	121,07	2,29	82,60	,8360	78	,92702	—	65,06	160,30	4,76	62,37	,6312
29	,88401	—	24,19	121,84	2,35	82,07	,8307	79	,92760	—	65,89	161,10	4,79	62,08	,6282
100 + 30	,88525	—	25,03	122,61	2,41	81,56	,8254	100 + 80	,92824	—	66,72	161,89	4,83	61,77	,6251
31	,88647	—	25,85	123,39	2,46	81,05	,8202	81	,92883	—	67,55	162,69	4,86	61,46	,6220
32	,88768	—	26,69	124,16	2,53	80,54	,8151	82	,92941	—	68,39	163,49	4,90	61,16	,6190
33	,88887	—	27,53	124,94	2,59	80,04	,8101	83	,92979	—	69,23	164,29	4,94	60,86	,6160
34	,89003	—	28,36	125,71	2,65	79,56	,8051	84	,93057	—	70,06	165,09	4,97	60,57	,6130
100 + 35	,89117	—	29,20	126,48	2,72	79,06	,8002	100 + 85	,93113	—	70,90	165,88	5,02	60,28	,6101
36	,89230	—	30,03	127,26	2,77	78,58	,7953	86	,93169	—	71,73	166,68	5,05	59,99	,6072
37	,89341	—	30,87	128,03	2,84	78,10	,7905	87	,93223	—	72,57	167,48	5,09	59,71	,6043
38	,89449	—	31,70	128,81	2,89	77,63	,7857	88	,93277	—	73,40	168,28	5,12	59,42	,6014
39	,89556	—	32,53	129,59	2,94	77,17	,7809	89	,93320	—	74,24	169,08	5,16	59,14	,5985
100 + 40	,89661	—	33,37	130,37	3,00	76,71	,7763	100 + 90	,93381	—	75,07	169,88	5,19	58,86	,5957
41	,89767	—	34,20	131,14	3,06	76,26	,7717	91	,93433	—	75,90	170,68	5,22	58,59	,5929
42	,89870	—	35,03	131,92	3,11	75,81	,7671	92	,93483	—	76,74	171,48	5,26	58,31	,5901
43	,89971	—	35,87	132,70	3,17	75,36	,7626	93	,93533	—	77,57	172,29	5,28	58,04	,5874
44	,90072	—	36,70	133,48	3,22	74,92	,7582	94	,93583	—	78,41	173,09	5,32	57,77	,5847
100 + 45	,90171	—	37,53	134,26	3,27	74,48	,7538	100 + 95	,93632	—	79,24	173,89	5,35	57,51	,5820
46	,90267	—	38,37	135,04	3,33	74,05	,7495	96	,93680	—	80,06	174,68	5,38	57,25	,5794
47	,90363	—	39,20	135,82	3,38	73,63	,7452	97	,93727	—	80,89	175,48	5,41	56,99	,5768
48	,90457	—	40,04	136,60	3,44	73,21	,7409	98	,93774	—	81,73	176,28	5,44	56,73	,5742
49	,90549	—	40,87	137,39	3,48	72,79	,7366	99	,93821	—	82,57	177,08	5,47	56,47	,5715

TABLE II.

HEAT 39°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,93867	100	83,42	177,89	5,53	56,21	,5689	100 + 50	,96465	100	166,82	259,67	7,15	38,51	,3897
99	,93913	—	84,27	178,71	5,56	55,95	,5662	49	,96517	—	170,22	263,03	7,19	38,02	,3848
98	,93959	—	85,13	179,54	5,59	55,69	,5636	48	,96572	—	173,77	266,55	7,22	37,51	,3797
97	,94005	—	86,00	180,39	5,61	55,43	,5610	47	,96626	—	177,46	270,24	7,22	37,01	,3746
96	,94050	—	86,89	181,25	5,64	55,17	,5583	46	,96680	—	181,33	274,09	7,24	36,48	,3693
100 + 95	,94096	—	87,80	182,12	5,68	54,90	,5557	100 + 45	,96733	—	185,36	278,12	7,24	35,95	,3639
94	,94143	—	88,73	183,02	5,71	54,63	,5530	44	,96786	—	189,57	282,32	7,25	35,42	,3585
93	,94190	—	89,69	183,95	5,74	54,36	,5502	43	,96838	—	193,98	286,73	7,25	34,87	,3530
92	,94237	—	90,66	184,90	5,76	54,08	,5474	42	,96890	—	198,60	291,34	7,26	34,32	,3474
91	,94285	—	91,66	185,86	5,80	53,80	,5445	41	,96941	—	203,44	296,19	7,25	33,76	,3417
100 + 90	,94332	—	92,68	186,84	5,84	53,52	,5416	100 + 40	,96991	—	208,53	301,28	7,25	33,19	,3359
89	,94383	—	93,72	187,85	5,87	53,23	,5388	39	,97041	—	213,87	306,64	7,23	32,61	,3300
88	,94433	—	94,78	188,88	5,90	52,94	,5359	38	,97092	—	219,50	312,29	7,21	32,02	,3241
87	,94483	—	95,87	189,94	5,93	52,65	,5329	37	,97141	—	225,43	318,25	7,18	31,42	,3180
86	,94534	—	96,99	191,02	5,97	52,36	,5299	36	,97191	—	231,69	324,53	7,16	30,81	,3119
100 + 85	,94584	—	98,13	192,12	6,01	52,05	,5268	100 + 35	,97240	—	238,32	331,18	7,14	30,19	,3056
84	,94636	—	99,29	193,25	6,04	51,75	,5237	34	,97290	—	245,32	338,21	7,11	29,57	,2993
83	,94687	—	100,50	194,41	6,09	51,44	,5206	33	,97339	—	252,76	345,69	7,07	28,93	,2928
82	,94738	—	101,72	195,60	6,12	51,12	,5174	32	,97388	—	260,66	353,63	7,03	28,28	,2862
81	,94789	—	102,97	196,82	6,15	50,80	,5142	31	,97439	—	269,07	362,09	6,98	27,62	,2795
100 + 80	,94839	—	104,27	198,08	6,19	50,49	,5109	100 + 30	,97489	—	278,04	371,10	6,94	26,95	,2727
79	,94891	—	105,58	199,36	6,22	50,16	,5076	29	,97539	—	287,62	380,75	6,87	26,26	,2658
78	,94942	—	106,94	200,68	6,26	49,83	,5043	28	,97592	—	297,90	391,09	6,81	25,57	,2588
77	,94994	—	108,33	202,03	6,30	49,50	,5009	27	,97644	—	308,93	402,19	6,74	24,86	,2517
76	,95046	—	109,75	203,43	6,32	49,15	,4975	26	,97696	—	320,81	414,15	6,66	24,14	,2443
100 + 75	,95097	—	111,21	204,85	6,36	48,81	,4940	100 + 25	,97750	—	333,64	427,05	6,59	23,41	,2370
74	,95150	—	112,71	206,32	6,39	48,47	,4905	24	,97805	—	347,55	441,04	6,51	22,67	,2295
73	,95203	—	114,26	207,82	6,44	48,12	,4869	23	,97862	—	362,66	456,24	6,42	21,92	,2218
72	,95256	—	115,85	209,38	6,47	47,76	,4833	22	,97921	—	379,14	472,82	6,32	21,15	,2140
71	,95310	—	117,48	210,98	6,50	47,40	,4797	21	,97981	—	397,20	490,97	6,23	20,37	,2061
100 + 70	,95363	—	119,15	212,61	6,54	47,03	,4760	100 + 20	,98043	—	417,06	510,95	6,11	19,57	,1981
69	,95417	—	120,87	214,31	6,56	46,66	,4722	19	,98104	—	439,01	533,01	6,00	18,76	,1898
68	,95472	—	122,65	216,05	6,60	46,28	,4684	18	,98168	—	463,40	557,54	5,86	17,94	,1815
67	,95526	—	124,49	217,85	6,64	45,90	,4646	17	,98236	—	490,66	584,93	5,73	17,10	,1730
66	,95581	—	126,38	219,70	6,68	45,52	,4607	16	,98306	—	521,32	615,74	5,58	16,24	,1643
100 + 65	,95636	—	128,33	221,61	6,72	45,13	,4567	100 + 15	,98378	—	556,08	650,65	5,43	15,37	,1555
64	,95691	—	130,33	223,58	6,75	44,73	,4527	14	,98454	—	595,80	690,53	5,27	14,48	,1466
63	,95746	—	132,39	225,60	6,79	44,32	,4486	13	,98533	—	641,64	736,51	5,13	13,58	,1374
62	,95802	—	134,52	227,70	6,82	43,91	,4445	12	,98616	—	695,10	790,17	4,93	12,65	,1281
61	,95857	—	136,73	229,88	6,85	43,50	,4403	11	,98705	—	758,29	853,55	4,74	11,71	,1186
100 + 60	,95913	—	139,00	232,12	6,88	43,08	,4360	100 + 10	,98797	—	834,12	929,56	4,56	10,76	,1089
59	,95969	—	141,36	234,44	6,92	42,65	,4317	9	,98894	—	926,80	1022,47	4,33	9,78	,0990
58	,96024	—	143,80	236,84	6,96	42,22	,4273	8	,98996	—	1042,65	1138,55	4,10	8,78	,0889
57	,96080	—	146,33	239,35	6,98	41,78	,4229	7	,99106	—	1191,60	1287,72	3,88	7,77	,0786
56	,96135	—	148,95	241,94	7,01	41,33	,4184	6	,99223	—	1390,20	1486,55	3,65	6,73	,0681
100 + 55	,96190	—	151,65	244,61	7,04	40,88	,4137	100 + 5	,99344	—	1668,25	1704,86	3,39	5,67	,0573
54	,96245	—	154,44	247,38	7,06	40,42	,4091	4	,99476	—	2085,30	2182,19	3,11	4,58	,0464
53	,96301	—	157,34	250,27	7,07	39,95	,4044	3	,99616	—	2780,39	2877,55	2,84	3,47	,0352
52	,96355	—	160,37	253,28	7,09	39,48	,3996	2	,99766	—	4170,59	4268,01	2,58	2,34	,0237
51	,96409	—	163,54	256,40	7,14	39,00	,3947	1	,99925	—	8341,18	8438,90	2,28	1,18	,0120



TABLE I.

HEAT 40°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of Bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83445	100	—	100,00	—	100,00	1,0114	100 + 50	,90596	100	41,68	138,16	3,52	72,38	,7321
1	,83674	—	0,83	100,72	0,11	99,28	1,0042	51	,90685	—	42,52	138,95	3,57	71,97	,7280
2	,83898	—	1,67	101,45	0,22	98,57	,9970	52	,90772	—	43,35	139,73	3,62	71,57	,7239
3	,84117	—	2,50	102,18	0,32	97,87	,9899	53	,90858	—	44,18	140,52	3,66	71,17	,7198
4	,84331	—	3,33	102,91	0,42	97,18	,9829	54	,90943	—	45,02	141,30	3,72	70,77	,7158
100 + 5	,84539	—	4,17	103,64	0,53	96,49	,9759	100 + 55	,91026	—	45,85	142,09	3,76	70,38	,7118
6	,84742	—	5,00	104,38	0,62	95,81	,9690	56	,91109	—	46,68	142,88	3,80	69,99	,7079
7	,84941	—	5,84	105,12	0,72	95,13	,9622	57	,91191	—	47,52	143,67	3,85	69,61	,7040
8	,85134	—	6,67	105,86	0,81	94,47	,9555	58	,91271	—	48,35	144,45	3,90	69,23	,7002
9	,85323	—	7,50	106,60	0,90	93,81	,9488	59	,91350	—	49,19	145,24	3,95	68,85	,6964
100 + 10	,85507	—	8,34	107,35	0,99	93,16	,9422	100 + 60	,91428	—	50,02	146,03	3,99	68,48	,6926
11	,85686	—	9,17	108,10	1,07	92,51	,9357	61	,91504	—	50,85	146,82	4,03	68,11	,6889
12	,85860	—	10,00	108,85	1,15	91,87	,9292	62	,91579	—	51,69	147,61	4,08	67,75	,6852
13	,86031	—	10,84	109,60	1,24	91,24	,9228	63	,91654	—	52,52	148,40	4,12	67,39	,6816
14	,86198	—	11,67	110,36	1,31	90,62	,9165	64	,91727	—	53,35	149,19	4,16	67,03	,6780
100 + 15	,86361	—	12,50	111,12	1,38	90,00	,9103	100 + 65	,91799	—	54,19	149,98	4,21	66,67	,6744
16	,86521	—	13,34	111,87	1,47	89,38	,9041	66	,91871	—	55,02	150,77	4,25	66,32	,6708
17	,86679	—	14,17	112,63	1,54	88,78	,8980	67	,91943	—	55,86	151,57	4,29	65,98	,6673
18	,86834	—	15,01	113,39	1,62	88,19	,8920	68	,92013	—	56,69	152,36	4,33	65,63	,6639
19	,86985	—	15,84	114,15	1,69	87,60	,8860	69	,92082	—	57,52	153,15	4,37	65,29	,6605
100 + 20	,87134	—	16,67	114,92	1,75	87,02	,8801	100 + 70	,92151	—	58,36	153,94	4,42	64,96	,6570
21	,87280	—	17,51	115,68	1,83	86,44	,8743	71	,92218	—	59,19	154,73	4,46	64,63	,6537
22	,87423	—	18,34	116,45	1,89	85,87	,8686	72	,92284	—	60,02	155,53	4,49	64,30	,6503
23	,87564	—	19,17	117,21	1,96	85,31	,8629	73	,92349	—	60,86	156,32	4,54	63,97	,6470
24	,87702	—	20,01	117,98	2,03	84,76	,8573	74	,92413	—	61,69	157,11	4,58	63,65	,6437
100 + 25	,87838	—	20,84	118,75	2,09	84,21	,8518	100 + 75	,92476	—	62,52	157,91	4,61	63,33	,6405
26	,87971	—	21,67	119,52	2,15	83,67	,8463	76	,92538	—	63,36	158,70	4,66	63,01	,6373
27	,88102	—	22,51	120,29	2,22	83,14	,8409	77	,92600	—	64,19	159,50	4,69	62,69	,6341
28	,88231	—	23,34	121,06	2,28	82,61	,8355	78	,92661	—	65,03	160,29	4,74	62,38	,6310
29	,88357	—	24,18	121,83	2,35	82,08	,8302	79	,92722	—	65,86	161,09	4,77	62,08	,6279
100 + 30	,88481	—	25,01	122,61	2,40	81,57	,8250	100 + 80	,92783	—	66,69	161,88	4,81	61,77	,6248
31	,88603	—	25,84	123,38	2,46	81,06	,8198	81	,92842	—	67,52	162,68	4,84	61,47	,6217
32	,88723	—	26,68	124,16	2,52	80,55	,8147	82	,92900	—	68,36	163,48	4,88	61,17	,6187
33	,88842	—	27,51	124,93	2,58	80,05	,8097	83	,92958	—	69,19	164,27	4,92	60,87	,6157
34	,88959	—	28,35	125,70	2,65	79,56	,8047	84	,93016	—	70,03	165,07	4,96	60,58	,6127
100 + 35	,89073	—	29,18	126,47	2,71	79,07	,7998	100 + 85	,93072	—	70,86	165,86	5,00	60,29	,6098
36	,89185	—	30,01	127,25	2,76	78,59	,7949	86	,93128	—	71,69	166,66	5,03	60,00	,6069
37	,89296	—	30,85	128,02	2,83	78,11	,7901	87	,93183	—	72,53	167,46	5,07	59,72	,6040
38	,89404	—	31,68	128,80	2,88	77,64	,7853	88	,93237	—	73,36	168,26	5,10	59,43	,6011
39	,89511	—	32,51	129,58	2,93	77,17	,7806	89	,93290	—	74,20	169,06	5,14	59,15	,5983
100 + 40	,89617	—	33,35	130,36	2,99	76,71	,7759	100 + 90	,93341	—	75,03	169,86	5,17	58,87	,5955
41	,89722	—	34,18	131,13	3,05	76,26	,7713	91	,93393	—	75,86	170,66	5,20	58,60	,5927
42	,89825	—	35,01	131,91	3,10	75,81	,7667	92	,93443	—	76,70	171,46	5,24	58,32	,5899
43	,89927	—	35,85	132,69	3,16	75,36	,7622	93	,93493	—	77,53	172,27	5,26	58,05	,5872
44	,90028	—	36,68	133,47	3,21	74,92	,7578	94	,93543	—	78,37	173,07	5,30	57,78	,5845
100 + 45	,90127	—	37,51	134,25	3,26	74,49	,7534	100 + 95	,93592	—	79,20	173,87	5,33	57,52	,5818
46	,90224	—	38,35	135,03	3,32	74,06	,7491	96	,93640	—	80,02	174,66	5,36	57,26	,5791
47	,90319	—	39,18	135,81	3,37	73,63	,7448	97	,93687	—	80,85	175,46	5,39	56,99	,5765
48	,90413	—	40,02	136,59	3,43	73,21	,7405	98	,93734	—	81,69	176,26	5,43	56,73	,5739
49	,90505	—	40,85	137,38	3,47	72,79	,7363	99	,93781	—	82,52	177,06	5,46	56,48	,5713

TABLE II.

HEAT 40°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93827	100	83.37	177.87	5.50	56.22	.5686	100 + 50	.96434	100	166.73	259.59	7.14	38.52	.3896
99	.93873	—	84.22	178.69	5.53	55.96	.5660	49	.96489	—	170.13	262.97	7.16	38.03	.3846
98	.93919	—	85.08	179.52	5.56	55.70	.5634	48	.96544	—	173.68	266.49	7.19	37.52	.3795
97	.93966	—	85.96	180.37	5.59	55.44	.5608	47	.96598	—	177.37	270.17	7.20	37.02	.3744
96	.94012	—	86.85	181.23	5.62	55.18	.5581	46	.96652	—	181.23	274.02	7.21	36.49	.3691
100 + 95	.94058	—	87.76	182.10	5.66	54.91	.5554	100 + 45	.96706	—	185.26	278.04	7.22	35.96	.3638
94	.94105	—	88.69	183.00	5.69	54.64	.5527	44	.96759	—	189.47	282.24	7.23	35.43	.3584
93	.94152	—	89.64	183.93	5.71	54.37	.5499	43	.96812	—	193.88	286.65	7.23	34.88	.3529
92	.94199	—	90.61	184.87	5.74	54.09	.5471	42	.96864	—	198.49	291.26	7.23	34.33	.3473
91	.94247	—	91.61	185.83	5.78	53.81	.5443	41	.96916	—	203.33	296.10	7.23	33.77	.3416
100 + 90	.94295	—	92.63	186.82	5.81	53.53	.5414	100 + 40	.96967	—	208.42	301.19	7.23	33.20	.3358
89	.94345	—	93.67	187.82	5.85	53.24	.5385	39	.97018	—	213.76	306.55	7.21	32.62	.3299
88	.94395	—	94.73	188.85	5.88	52.95	.5356	38	.97069	—	219.38	312.19	7.19	32.03	.3240
87	.94445	—	95.82	189.91	5.91	52.66	.5326	37	.97119	—	225.31	318.14	7.17	31.43	.3179
86	.94496	—	96.94	190.99	5.95	52.36	.5296	36	.97170	—	231.57	324.42	7.15	30.82	.3118
100 + 85	.94547	—	98.08	192.09	5.99	52.06	.5265	100 + 35	.97220	—	238.19	331.06	7.13	30.21	.3055
84	.94598	—	99.24	193.22	6.02	51.75	.5235	34	.97270	—	245.19	338.09	7.10	29.58	.2992
83	.94649	—	100.44	194.38	6.06	51.44	.5204	33	.97320	—	252.62	345.57	7.05	28.94	.2927
82	.94700	—	101.67	195.57	6.10	51.13	.5172	32	.97370	—	260.52	353.50	7.02	28.29	.2861
81	.94751	—	102.92	196.79	6.13	50.81	.5140	31	.97421	—	268.92	361.95	6.97	27.63	.2794
100 + 80	.94802	—	104.21	198.05	6.16	50.49	.5107	100 + 30	.97472	—	277.89	370.97	6.92	26.96	.2726
79	.94853	—	105.53	199.33	6.20	50.17	.5074	29	.97523	—	287.47	380.60	6.87	26.27	.2657
78	.94904	—	106.88	200.65	6.23	49.84	.5041	28	.97576	—	297.74	390.93	6.81	25.58	.2587
77	.94956	—	108.27	202.00	6.27	49.50	.5007	27	.97629	—	308.76	402.03	6.73	24.87	.2516
76	.95008	—	109.69	203.39	6.30	49.16	.4973	26	.97682	—	320.64	413.98	6.66	24.15	.2443
100 + 75	.95050	—	111.15	204.82	6.33	48.82	.4938	100 + 25	.97737	—	333.46	426.88	6.58	23.42	.2369
74	.95113	—	112.65	206.28	6.37	48.48	.4903	24	.97793	—	347.36	440.86	6.50	22.68	.2294
73	.95166	—	114.20	207.79	6.41	48.12	.4867	23	.97851	—	362.46	456.05	6.41	21.93	.2218
72	.95220	—	115.79	209.34	6.45	47.77	.4831	22	.97910	—	378.94	472.62	6.32	21.16	.2140
71	.95274	—	117.42	210.91	6.48	47.41	.4795	21	.97971	—	396.98	490.76	6.22	20.37	.2061
100 + 70	.95328	—	119.09	212.58	6.51	47.04	.4758	100 + 20	.98033	—	416.83	510.72	6.11	19.58	.1980
69	.95382	—	120.81	214.27	6.54	46.67	.4720	19	.98096	—	438.77	532.77	6.00	18.77	.1898
68	.95437	—	122.59	216.01	6.58	46.29	.4682	18	.98161	—	463.15	557.28	5.87	17.94	.1815
67	.95492	—	124.42	217.81	6.61	45.91	.4644	17	.98229	—	490.39	584.65	5.74	17.10	.1730
66	.95547	—	126.31	219.66	6.65	45.53	.4605	16	.98300	—	521.04	615.44	5.60	16.25	.1643
100 + 65	.95602	—	128.26	221.57	6.69	45.14	.4565	100 + 15	.98373	—	555.78	650.33	5.45	15.38	.1555
64	.95657	—	130.26	223.53	6.73	44.74	.4525	14	.98449	—	595.47	690.19	5.28	14.49	.1466
63	.95712	—	132.32	225.56	6.76	44.33	.4484	13	.98529	—	641.28	736.14	5.14	13.58	.1374
62	.95768	—	134.45	227.66	6.79	43.92	.4443	12	.98613	—	694.72	789.77	4.95	12.66	.1281
61	.95823	—	136.66	229.84	6.82	43.51	.4401	11	.98702	—	757.87	853.11	4.76	11.72	.1186
100 + 60	.95879	—	138.94	232.08	6.86	43.09	.4358	100 + 10	.98795	—	833.66	929.07	4.59	10.76	.1089
59	.95933	—	141.29	234.40	6.89	42.66	.4315	9	.98892	—	926.29	1021.93	4.36	9.78	.0990
58	.95991	—	143.73	236.80	6.93	42.23	.4271	8	.98995	—	1042.08	1137.94	4.14	8.79	.0889
57	.96047	—	146.25	239.30	6.95	41.79	.4227	7	.99105	—	1190.95	1287.03	3.92	7.77	.0786
56	.96103	—	148.87	241.89	6.98	41.34	.4182	6	.99222	—	1389.44	1485.75	3.69	6.73	.0681
100 + 55	.96159	—	151.57	244.56	7.01	40.89	.4136	100 + 5	.99345	—	1667.33	1763.90	3.43	5.67	.0573
54	.96214	—	154.36	247.33	7.03	40.43	.4089	4	.99476	—	2084.16	2181.00	3.16	4.59	.0464
53	.96270	—	157.26	250.22	7.04	39.96	.4042	3	.99616	—	2778.87	2875.98	2.89	3.48	.0352
52	.96325	—	160.29	253.22	7.07	39.49	.3994	2	.99766	—	4168.31	4265.67	2.64	2.34	.0237
51	.96379	—	163.45	256.34	7.11	39.01	.3945	1	.99925	—	8336.63	8434.27	2.36	1.18	.0120

TABLE I.

HEAT 41°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.	Spirit and Water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	.83399	100	—	100,00	—	100,00	1,0109	100 + 50	.90553	100	41,66	138,15	3,51	72,39	.7317
1	.83628	—	0,83	100,72	0,11	99,28	1,0037	51	.90642	—	42,50	138,94	3,56	71,97	.7277
2	.83853	—	1,67	101,45	0,22	98,57	.9965	52	.90729	—	43,33	139,72	3,61	71,57	.7236
3	.84072	—	2,50	102,18	0,32	97,87	.9894	53	.90815	—	44,15	140,50	3,65	71,17	.7195
4	.84286	—	3,33	102,91	0,42	97,18	.9824	54	.90900	—	44,99	141,29	3,70	70,78	.7155
100 + 5	.84493	—	4,17	103,64	0,53	96,49	.9754	100 + 55	.90984	—	45,82	142,07	3,75	70,39	.7115
6	.84697	—	5,00	104,38	0,62	95,81	.9685	56	.91066	—	46,65	142,86	3,79	70,00	.7076
7	.84895	—	5,84	105,12	0,72	95,13	.9617	57	.91148	—	47,49	143,65	3,84	69,61	.7037
8	.85088	—	6,67	105,86	0,81	94,47	.9550	58	.91228	—	48,32	144,43	3,89	69,23	.6999
9	.85277	—	7,50	106,60	0,90	93,81	.9483	59	.91307	—	49,16	145,22	3,94	68,86	.6961
100 + 10	.85461	—	8,34	107,35	0,99	93,16	.9417	100 + 60	.91385	—	49,99	146,01	3,98	68,49	.6923
11	.85640	—	9,17	108,10	1,07	92,51	.9352	61	.91461	—	50,82	146,80	4,02	68,12	.6886
12	.85814	—	10,00	108,85	1,15	91,87	.9288	62	.91536	—	51,66	147,59	4,07	67,75	.6849
13	.85985	—	10,84	109,60	1,24	91,24	.9224	63	.91611	—	52,49	148,38	4,11	67,39	.6813
14	.86152	—	11,67	110,36	1,31	90,62	.9160	64	.91684	—	53,32	149,17	4,15	67,03	.6777
100 + 15	.86315	—	12,49	111,12	1,37	90,00	.9098	100 + 65	.91756	—	54,16	149,96	4,20	66,68	.6741
16	.86476	—	13,33	111,87	1,46	89,38	.9037	66	.91828	—	54,99	150,75	4,24	66,33	.6705
17	.86634	—	14,17	112,63	1,54	88,78	.8976	67	.91900	—	55,82	151,55	4,27	65,98	.6670
18	.86789	—	15,00	113,39	1,61	88,19	.8916	68	.91971	—	56,65	152,34	4,31	65,64	.6636
19	.86940	—	15,83	114,15	1,68	87,60	.8856	69	.92040	—	57,49	153,13	4,36	65,29	.6602
100 + 20	.87088	—	16,66	114,92	1,74	87,02	.8797	100 + 70	.92109	—	58,32	153,92	4,40	64,97	.6567
21	.87235	—	17,50	115,68	1,82	86,44	.8739	71	.92176	—	59,15	154,71	4,44	64,64	.6534
22	.87378	—	18,33	116,44	1,89	85,87	.8681	72	.92242	—	59,98	155,51	4,47	64,30	.6500
23	.87519	—	19,16	117,21	1,95	85,31	.8625	73	.92307	—	60,82	156,30	4,52	63,98	.6467
24	.87657	—	20,00	117,98	2,02	84,76	.8569	74	.92371	—	61,65	157,10	4,55	63,65	.6435
100 + 25	.87793	—	20,83	118,74	2,09	84,21	.8513	100 + 75	.92434	—	62,48	157,89	4,59	63,34	.6402
26	.87926	—	21,66	119,51	2,15	83,67	.8459	76	.92496	—	63,32	158,68	4,64	63,01	.6370
27	.88057	—	22,50	120,28	2,22	83,14	.8405	77	.92558	—	64,15	159,49	4,66	62,70	.6338
28	.88186	—	23,33	121,06	2,27	82,61	.8351	78	.92619	—	64,99	160,27	4,72	62,39	.6307
29	.88312	—	24,17	121,83	2,34	82,08	.8298	79	.92680	—	65,82	161,07	4,75	62,09	.6276
100 + 30	.88436	—	25,00	122,60	2,40	81,57	.8246	100 + 80	.92741	—	66,65	161,86	4,79	61,78	.6245
31	.88558	—	25,83	123,37	2,46	81,06	.8194	81	.92800	—	67,48	162,66	4,82	61,47	.6214
32	.88678	—	26,66	124,15	2,51	80,55	.8143	82	.92858	—	68,32	163,46	4,86	61,18	.6184
33	.88797	—	27,49	124,92	2,57	80,05	.8093	83	.92916	—	69,15	164,25	4,90	60,88	.6154
34	.88914	—	28,33	125,69	2,64	79,56	.8043	84	.92974	—	69,99	165,05	4,94	60,58	.6125
100 + 35	.89029	—	29,16	126,46	2,70	79,07	.7993	100 + 85	.93030	—	70,82	165,84	4,98	60,29	.6095
36	.89141	—	29,99	127,24	2,75	78,59	.7945	86	.93086	—	71,65	166,65	5,00	60,00	.6067
37	.89252	—	30,84	128,01	2,83	78,11	.7897	87	.93142	—	72,49	167,44	5,05	59,72	.6038
38	.89360	—	31,66	128,79	2,87	77,64	.7849	88	.93195	—	73,32	168,24	5,08	59,43	.6009
39	.89467	—	32,49	129,57	2,92	77,17	.7802	89	.93248	—	74,16	169,05	5,11	59,16	.5981
100 + 40	.89572	—	33,33	130,35	2,98	76,71	.7756	100 + 90	.93299	—	74,99	169,85	5,14	58,88	.5952
41	.89678	—	34,16	131,12	3,04	76,26	.7709	91	.93351	—	75,82	170,65	5,17	58,60	.5924
42	.89781	—	34,99	131,90	3,09	75,81	.7664	92	.93401	—	76,65	171,44	5,21	58,33	.5897
43	.89884	—	35,83	132,68	3,15	75,37	.7619	93	.93451	—	77,49	172,25	5,24	58,06	.5869
44	.89985	—	36,66	133,46	3,20	74,93	.7575	94	.93501	—	78,32	173,05	5,27	57,79	.5842
100 + 45	.90084	—	37,49	134,24	3,25	74,49	.7531	100 + 95	.93550	—	79,15	173,85	5,30	57,52	.5815
46	.90181	—	38,32	135,02	3,30	74,06	.7488	96	.93598	—	79,97	174,64	5,33	57,26	.5789
47	.90276	—	39,16	135,80	3,36	73,64	.7445	97	.93646	—	80,80	175,44	5,36	57,00	.5763
48	.90370	—	39,99	136,58	3,41	73,22	.7402	98	.93693	—	81,64	176,24	5,40	56,74	.5737
49	.90462	—	40,83	137,37	3,46	72,80	.7360	99	.93740	—	82,47	177,04	5,43	56,48	.5711



TABLE II.

HEAT 41°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93786	100	83.32	177.85	5.47	56.22	.5684	100 + 50	.96404	100	166.64	259.53	7.11	38.53	.3895
99	.93833	—	84.17	178.66	5.51	55.97	.5658	49	.96459	—	170.04	262.90	7.14	38.04	.3845
98	.93879	—	85.03	179.49	5.54	55.71	.5631	48	.96514	—	173.58	266.42	7.16	37.53	.3794
97	.93926	—	85.91	180.34	5.57	55.45	.5605	47	.96569	—	177.27	270.10	7.17	37.02	.3743
96	.93972	—	86.80	181.20	5.60	55.19	.5579	46	.96623	—	181.13	273.95	7.18	36.50	.3690
100 + 95	.94019	—	87.71	182.07	5.64	54.92	.5552	100 + 45	.96678	—	185.16	277.96	7.20	35.97	.3637
94	.94066	—	88.64	182.98	5.66	54.65	.5525	44	.96731	—	189.36	282.16	7.20	35.43	.3583
93	.94113	—	89.59	183.90	5.69	54.38	.5497	43	.96785	—	193.77	286.58	7.19	34.89	.3528
92	.94160	—	90.56	184.84	5.72	54.10	.5469	42	.96838	—	198.38	291.19	7.19	34.34	.3472
91	.94208	—	91.56	185.80	5.76	53.82	.5441	41	.96890	—	203.22	296.01	7.21	33.78	.3415
100 + 90	.94256	—	92.58	186.79	5.79	53.53	.5412	100 + 40	.96941	—	208.30	301.10	7.20	33.21	.3357
89	.94306	—	93.62	187.79	5.83	53.24	.5383	39	.96994	—	213.64	306.45	7.19	32.63	.3299
88	.94356	—	94.68	188.82	5.86	52.95	.5354	38	.97045	—	219.26	312.09	7.17	32.04	.3239
87	.94406	—	95.76	189.88	5.88	52.67	.5324	37	.97096	—	225.19	318.04	7.15	31.44	.3179
86	.94457	—	96.88	190.97	5.91	52.37	.5294	36	.97148	—	231.44	324.31	7.13	30.83	.3117
100 + 85	.94508	—	98.02	192.06	5.96	52.06	.5263	100 + 35	.97198	—	238.06	330.95	7.11	30.22	.3054
84	.94559	—	99.19	193.20	5.99	51.76	.5233	34	.97249	—	245.05	337.97	7.08	29.59	.2991
83	.94610	—	100.38	194.36	6.02	51.45	.5202	33	.97300	—	252.48	345.45	7.03	28.95	.2927
82	.94661	—	101.61	195.55	6.06	51.14	.5170	32	.97351	—	260.38	353.38	7.00	28.30	.2861
81	.94712	—	102.86	196.76	6.10	50.82	.5138	31	.97403	—	268.77	361.82	6.95	27.64	.2794
100 + 80	.94762	—	104.15	198.03	6.12	50.50	.5105	100 + 30	.97455	—	277.74	370.83	6.91	26.97	.2726
79	.94814	—	105.47	199.30	6.17	50.17	.5072	29	.97507	—	287.31	380.46	6.85	26.28	.2657
78	.94866	—	106.82	200.62	6.20	49.84	.5039	28	.97560	—	297.57	390.78	6.79	25.59	.2587
77	.94918	—	108.21	201.97	6.24	49.51	.5005	27	.97614	—	308.59	401.87	6.72	24.88	.2516
76	.94970	—	109.63	203.36	6.27	49.17	.4971	26	.97668	—	320.46	413.82	6.64	24.16	.2443
100 + 75	.95023	—	111.09	204.79	6.30	48.83	.4936	100 + 25	.97722	—	333.28	426.70	6.58	23.43	.2369
74	.95076	—	112.59	206.25	6.34	48.48	.4901	24	.97780	—	347.17	440.67	6.50	22.69	.2294
73	.95129	—	114.14	207.75	6.39	48.13	.4865	23	.97839	—	362.26	455.85	6.41	21.93	.2218
72	.95183	—	115.72	209.30	6.42	47.78	.4830	22	.97898	—	378.73	472.41	6.32	21.16	.2140
71	.95237	—	117.35	210.90	6.45	47.42	.4794	21	.97960	—	396.76	490.54	6.22	20.38	.2061
100 + 70	.95291	—	119.02	212.55	6.47	47.05	.4756	100 + 20	.98023	—	416.60	510.49	6.11	19.59	.1980
69	.95346	—	120.74	214.24	6.50	46.68	.4719	19	.98087	—	438.53	532.52	6.01	18.78	.1898
68	.95401	—	122.52	215.97	6.55	46.30	.4681	18	.98152	—	462.90	557.02	5.88	17.95	.1815
67	.95456	—	124.35	217.77	6.58	45.92	.4643	17	.98221	—	490.12	584.37	5.75	17.11	.1730
66	.95511	—	126.24	219.62	6.62	45.53	.4604	16	.98293	—	520.76	615.14	5.62	16.26	.1643
100 + 65	.95567	—	128.18	221.52	6.66	45.14	.4564	100 + 15	.98366	—	555.48	650.01	5.47	15.39	.1555
64	.95622	—	130.28	223.49	6.69	44.74	.4524	14	.98443	—	595.15	689.85	5.30	14.50	.1465
63	.95677	—	132.24	225.52	6.72	44.34	.4483	13	.98524	—	640.92	735.78	5.14	13.59	.1374
62	.95733	—	134.37	227.61	6.76	43.93	.4442	12	.98608	—	694.34	789.37	4.97	12.67	.1281
61	.95789	—	136.58	229.80	6.78	43.52	.4400	11	.98698	—	757.46	852.67	4.79	11.73	.1186
100 + 60	.95845	—	138.86	232.03	6.83	43.10	.4357	100 + 10	.98790	—	833.21	928.59	4.62	10.77	.1089
59	.95901	—	141.21	234.36	6.85	42.67	.4314	9	.98889	—	925.79	1021.40	4.39	9.79	.0990
58	.95957	—	143.65	236.75	6.90	42.24	.4270	8	.98993	—	1041.51	1137.34	4.17	8.79	.0889
57	.96014	—	146.17	239.25	6.92	41.80	.4226	7	.99103	—	1190.30	1286.34	3.96	7.77	.0786
56	.96070	—	148.79	241.83	6.96	41.35	.4181	6	.99221	—	1388.69	1484.95	3.74	6.73	.0681
100 + 55	.96125	—	151.48	244.50	6.98	40.90	.4135	100 + 5	.99344	—	1656.43	1762.94	3.49	5.67	.0573
54	.96182	—	154.27	247.27	7.00	40.43	.4088	4	.99475	—	2083.03	2179.81	3.22	4.59	.0464
53	.96238	—	157.17	250.17	7.00	39.97	.4041	3	.99615	—	2777.36	2874.40	2.96	3.48	.0352
52	.96293	—	160.20	253.17	7.03	39.50	.3993	2	.99765	—	4166.03	4263.33	2.70	2.35	.0237
51	.96348	—	163.36	256.28	7.08	39.02	.3944	1	.99924	—	8332.10	8429.66	2.44	1.19	.0120

TABLE I.

HEAT 42°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83353	100	—	100,00	—	100,00	1,0104	100 + 50	,90510	100	41,64	138,14	3,50	72,39	,7314
1	,83582	—	0,83	100,72	0,11	99,28	1,0032	51	,90599	—	42,47	138,93	3,54	71,98	,7273
2	,83807	—	1,67	101,45	0,22	98,57	,9960	52	,90686	—	43,30	139,71	3,59	71,58	,7232
3	,84026	—	2,50	102,18	0,32	97,87	,9889	53	,90772	—	44,13	140,49	3,64	71,18	,7191
4	,84240	—	3,33	102,91	0,42	97,18	,9819	54	,90857	—	44,97	141,28	3,69	70,78	,7151
100 + 5	,84447	—	4,17	103,64	0,53	96,49	,9749	100 + 55	,90941	—	45,80	142,06	3,74	70,39	,7112
6	,84651	—	5,00	104,38	0,62	95,81	,9680	56	,91023	—	46,63	142,85	3,78	70,00	,7073
7	,84849	—	5,83	105,12	0,71	95,13	,9612	57	,91105	—	47,46	143,64	3,82	69,62	,7034
8	,85042	—	6,66	105,86	0,80	94,47	,9545	58	,91185	—	48,30	144,42	3,88	69,24	,6996
9	,85231	—	7,49	106,60	0,89	93,81	,9478	59	,91263	—	49,14	145,21	3,93	68,86	,6958
100 + 10	,85415	—	8,33	107,35	0,98	93,16	,9412	100 + 60	,91341	—	49,96	146,00	3,96	68,49	,6920
11	,85594	—	9,16	108,10	1,06	92,51	,9347	61	,91418	—	50,80	146,79	4,01	68,12	,6883
12	,85768	—	10,00	108,85	1,15	91,87	,9283	62	,91493	—	51,63	147,58	4,05	67,76	,6846
13	,85939	—	10,83	109,60	1,23	91,24	,9219	63	,91568	—	52,46	148,37	4,09	67,40	,6810
14	,86106	—	11,66	110,36	1,30	90,62	,9156	64	,91641	—	53,29	149,16	4,13	67,04	,6773
100 + 15	,86269	—	12,48	111,11	1,37	90,00	,9093	100 + 65	,91713	—	54,13	149,95	4,18	66,68	,6737
16	,86430	—	13,32	111,87	1,45	89,38	,9032	66	,91785	—	54,96	150,74	4,22	66,33	,6702
17	,86588	—	14,16	112,63	1,53	88,78	,8971	67	,91857	—	55,79	151,54	4,25	65,99	,6667
18	,86743	—	14,99	113,39	1,60	88,19	,8911	68	,91928	—	56,62	152,33	4,29	65,64	,6633
19	,86895	—	15,82	114,15	1,67	87,60	,8851	69	,91998	—	57,46	153,12	4,34	65,30	,6598
100 + 20	,87043	—	16,65	114,91	1,74	87,02	,8792	100 + 70	,92066	—	58,29	153,91	4,38	64,97	,6564
21	,87190	—	17,49	115,68	1,81	86,45	,8734	71	,92133	—	59,12	154,70	4,42	64,64	,6531
22	,87333	—	18,32	116,44	1,88	85,88	,8677	72	,92200	—	59,95	155,50	4,45	64,31	,6497
23	,87474	—	19,15	117,20	1,95	85,32	,8620	73	,92265	—	60,79	156,29	4,50	63,98	,6464
24	,87612	—	19,98	117,97	2,01	84,76	,8564	74	,92329	—	61,62	157,08	4,54	63,66	,6432
100 + 25	,87748	—	20,82	118,74	2,08	84,22	,8509	100 + 75	,92391	—	62,45	157,88	4,57	63,34	,6399
26	,87881	—	21,65	119,51	2,14	83,68	,8454	76	,92454	—	63,29	158,67	4,62	63,02	,6367
27	,88012	—	22,49	120,28	2,21	83,14	,8400	77	,92516	—	64,12	159,48	4,64	62,71	,6335
28	,88141	—	23,32	121,05	2,27	82,61	,8347	78	,92577	—	64,96	160,26	4,70	62,40	,6304
29	,88267	—	24,15	121,82	2,33	82,09	,8294	79	,92638	—	65,79	161,05	4,74	62,09	,6273
100 + 30	,88390	—	24,98	122,69	2,39	81,57	,8241	100 + 80	,92699	—	66,62	161,85	4,77	61,78	,6242
31	,88513	—	25,81	123,37	2,44	81,06	,8190	81	,92758	—	67,45	162,65	4,80	61,48	,6211
32	,88633	—	26,65	124,14	2,51	80,56	,8139	82	,92816	—	68,28	163,45	4,83	61,18	,6181
33	,88752	—	27,48	124,92	2,56	80,06	,8089	83	,92874	—	69,12	164,24	4,88	60,88	,6151
34	,88869	—	28,32	125,68	2,64	79,57	,8039	84	,92932	—	69,95	165,04	4,91	60,59	,6122
100 + 35	,88984	—	29,15	126,46	2,69	79,08	,7989	100 + 85	,92988	—	70,78	165,83	4,95	60,30	,6093
36	,89096	—	29,98	127,23	2,75	78,60	,7941	86	,93044	—	71,61	166,63	4,98	60,01	,6064
37	,89207	—	30,82	128,01	2,81	78,12	,7893	87	,93101	—	72,45	167,43	5,02	59,73	,6035
38	,89316	—	31,65	128,78	2,87	77,65	,7845	88	,93153	—	73,28	168,23	5,05	59,44	,6006
39	,89423	—	32,47	129,56	2,91	77,18	,7798	89	,93206	—	74,11	169,03	5,08	59,16	,5978
100 + 40	,89528	—	33,31	130,34	2,97	76,72	,7752	100 + 90	,93257	—	74,95	169,83	5,12	58,88	,5950
41	,89634	—	34,14	131,11	3,03	76,27	,7706	91	,93309	—	75,78	170,63	5,15	58,61	,5922
42	,89738	—	34,97	131,89	3,08	75,82	,7661	92	,93359	—	76,61	171,43	5,18	58,33	,5894
43	,89840	—	35,81	132,67	3,14	75,37	,7616	93	,93409	—	77,45	172,23	5,22	58,06	,5866
44	,89941	—	36,64	133,45	3,19	74,93	,7571	94	,93459	—	78,28	173,03	5,25	57,79	,5840
100 + 45	,90041	—	37,47	134,23	3,24	74,50	,7527	100 + 95	,93508	—	79,11	173,83	5,28	57,53	,5813
46	,90138	—	38,30	135,01	3,29	74,07	,7484	96	,93556	—	79,93	174,62	5,31	57,27	,5786
47	,90232	—	39,14	135,79	3,35	73,64	,7441	97	,93604	—	80,76	175,42	5,34	57,01	,5760
48	,90327	—	39,97	136,57	3,40	73,22	,7399	98	,93651	—	81,59	176,21	5,38	56,75	,5734
49	,90419	—	40,80	137,35	3,45	72,80	,7356	99	,93699	—	82,43	177,02	5,41	56,49	,5708

TABLE II.

HEAT 42°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93744	100	83.28	177.83	5.45	56.23	.5681	100 + 50	.96373	100	166.55	259.47	7.08	38.54	.3894
99	.93792	—	84.13	178.64	5.49	55.97	.5655	49	.96428	—	169.95	262.84	7.11	38.05	.3844
98	.93838	—	84.99	179.47	5.52	55.72	.5629	48	.96484	—	173.48	266.36	7.12	37.54	.3793
97	.93885	—	85.86	180.32	5.54	55.45	.5603	47	.96539	—	177.17	270.03	7.14	37.03	.3742
96	.93932	—	86.75	181.18	5.57	55.19	.5576	46	.96594	—	181.03	273.88	7.15	36.51	.3689
100 + 95	.93980	—	87.66	182.05	5.61	54.92	.5549	100 + 45	.96650	—	185.06	277.89	7.17	35.98	.3636
94	.94026	—	88.59	182.95	5.64	54.66	.5522	44	.96703	—	189.26	282.08	7.18	35.44	.3582
93	.94074	—	89.54	183.88	5.66	54.39	.5495	43	.96757	—	193.66	286.50	7.16	34.90	.3527
92	.94120	—	90.51	184.82	5.69	54.11	.5467	42	.96811	—	198.27	291.11	7.16	34.35	.3471
91	.94168	—	91.51	185.78	5.73	53.82	.5439	41	.96864	—	203.11	295.93	7.18	33.79	.3414
100 + 90	.94216	—	92.53	186.77	5.76	53.54	.5410	100 + 40	.96915	—	208.18	301.01	7.17	33.22	.3356
89	.94266	—	93.57	187.76	5.81	53.25	.5381	39	.96969	—	213.52	306.36	7.16	32.64	.3298
88	.94316	—	94.63	188.80	5.83	52.96	.5352	38	.97021	—	219.14	311.99	7.15	32.05	.3238
87	.94366	—	95.71	189.86	5.85	52.67	.5322	37	.97072	—	225.07	317.94	7.13	31.45	.3178
86	.94417	—	96.83	190.94	5.89	52.37	.5292	36	.97125	—	231.31	324.21	7.10	30.84	.3116
100 + 85	.94468	—	97.97	192.04	5.93	52.07	.5261	100 + 35	.97176	—	237.93	330.84	7.09	30.23	.3054
84	.94519	—	99.13	193.17	5.96	51.77	.5231	34	.97228	—	244.92	337.86	7.06	29.60	.2991
83	.94570	—	100.33	194.33	6.00	51.46	.5199	33	.97280	—	252.34	345.34	7.00	28.96	.2926
82	.94621	—	101.56	195.52	6.04	51.14	.5168	32	.97332	—	260.24	353.26	6.98	28.31	.2860
81	.94672	—	102.81	196.74	6.07	50.83	.5136	31	.97384	—	268.62	361.69	6.93	27.65	.2793
100 + 80	.94722	—	104.09	198.00	6.09	50.51	.5103	100 + 30	.97438	—	277.59	370.69	6.90	26.98	.2725
79	.94775	—	105.41	199.28	6.13	50.18	.5070	29	.97490	—	287.15	380.32	6.83	26.29	.2656
78	.94827	—	106.76	200.59	6.17	49.85	.5037	28	.97543	—	297.41	390.64	6.77	25.60	.2586
77	.94879	—	108.15	201.94	6.21	49.52	.5003	27	.97598	—	308.42	401.72	6.70	24.89	.2515
76	.94932	—	109.57	203.33	6.24	49.18	.4969	26	.97653	—	320.29	413.66	6.63	24.17	.2442
100 + 75	.94985	—	111.03	204.76	6.27	48.84	.4934	100 + 25	.97708	—	333.10	426.53	6.57	23.44	.2369
74	.95038	—	112.53	206.22	6.31	48.49	.4899	24	.97766	—	346.98	440.48	6.50	22.70	.2294
73	.95091	—	114.08	207.72	6.36	48.14	.4863	23	.97826	—	362.06	455.66	6.40	21.94	.2218
72	.95145	—	115.66	209.27	6.39	47.78	.4828	22	.97886	—	378.52	472.20	6.32	21.17	.2140
71	.95200	—	117.28	210.87	6.41	47.42	.4792	21	.97948	—	396.54	490.32	6.22	20.39	.2061
100 + 70	.95254	—	118.96	212.51	6.45	47.05	.4754	100 + 20	.98013	—	416.37	510.26	6.11	19.60	.1980
69	.95309	—	120.67	214.20	6.47	46.68	.4717	19	.98077	—	438.29	532.28	6.01	18.79	.1898
68	.95364	—	122.45	215.94	6.51	46.30	.4679	18	.98143	—	462.65	556.76	5.89	17.96	.1815
67	.95419	—	124.28	217.73	6.55	45.92	.4641	17	.98212	—	489.85	584.09	5.76	17.12	.1730
66	.95475	—	126.17	219.58	6.59	45.54	.4602	16	.98285	—	520.48	614.84	5.64	16.26	.1643
100 + 65	.95531	—	128.11	221.48	6.63	45.15	.4562	100 + 15	.98359	—	555.18	649.69	5.49	15.39	.1555
64	.95586	—	130.21	223.45	6.66	44.75	.4522	14	.98436	—	594.83	689.51	5.32	14.50	.1465
63	.95641	—	132.17	225.48	6.69	44.35	.4481	13	.98518	—	640.56	735.42	5.14	13.59	.1374
62	.95698	—	134.30	227.57	6.73	43.94	.4440	12	.98603	—	693.96	788.97	4.99	12.67	.1281
61	.95754	—	136.51	229.75	6.76	43.52	.4398	11	.98693	—	757.05	852.24	4.81	11.73	.1186
100 + 60	.95810	—	138.78	231.99	6.79	43.11	.4355	100 + 10	.98786	—	832.76	928.11	4.65	10.77	.1089
59	.95866	—	141.14	234.31	6.83	42.68	.4312	9	.98885	—	925.29	1020.87	4.42	9.79	.0990
58	.95923	—	143.57	236.70	6.87	42.24	.4268	8	.98990	—	1040.95	1136.74	4.21	8.80	.0889
57	.95981	—	146.09	239.20	6.89	41.80	.4224	7	.99101	—	1189.66	1285.66	4.00	7.78	.0786
56	.96036	—	148.71	241.78	6.93	41.36	.4179	6	.99219	—	1387.94	1484.15	3.79	6.74	.0681
100 + 55	.96092	—	151.40	244.45	6.95	40.90	.4133	100 + 5	.99343	—	1665.53	1761.99	3.54	5.68	.0573
54	.96149	—	154.19	247.22	6.97	40.44	.4087	4	.99474	—	2081.90	2178.62	3.28	4.59	.0464
53	.96205	—	157.08	250.11	6.97	39.98	.4040	3	.99614	—	2775.86	2872.83	3.03	3.48	.0352
52	.96261	—	160.11	253.11	7.00	39.51	.3992	2	.99764	—	4163.75	4261.01	2.74	2.35	.0237
51	.96317	—	163.27	256.22	7.05	39.03	.3943	1	.99923	—	8320.59	8425.08	2.51	1.19	.0120

TABLE I.

HEAT 43°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83307	100	—	100,00	—	100,00	1,0098	100 + 50	,90467	100	41,61	138,13	3,48	72,40	,7310
1	,83536	—	0,83	100,72	0,11	99,28	1,0026	51	,90556	—	42,45	138,91	3,54	71,99	,7270
2	,83761	—	1,67	101,45	0,22	98,57	,9955	52	,90643	—	43,28	139,70	3,58	71,58	,7229
3	,83980	—	2,50	102,17	0,33	97,87	,9884	53	,90729	—	44,10	140,48	3,62	71,18	,7188
4	,84194	—	3,33	102,90	0,43	97,18	,9814	54	,90814	—	44,94	141,27	3,67	70,79	,7148
100 + 5	,84401	—	4,17	103,64	0,53	96,49	,9744	100 + 55	,90898	—	45,78	142,05	3,73	70,40	,7108
6	,84605	—	5,00	104,38	0,62	95,81	,9675	56	,90980	—	46,60	142,84	3,76	70,01	,7069
7	,84803	—	5,83	105,12	0,71	95,13	,9607	57	,91062	—	47,44	143,63	3,81	69,62	,7030
8	,84996	—	6,66	105,86	0,80	94,47	,9540	58	,91141	—	48,27	144,41	3,86	69,24	,6993
9	,85185	—	7,49	106,60	0,89	93,81	,9473	59	,91220	—	49,11	145,20	3,91	68,87	,6955
100 + 10	,85369	—	8,32	107,35	0,97	93,16	,9407	100 + 60	,91297	—	49,93	145,99	3,94	68,50	,6917
11	,85548	—	9,16	108,10	1,06	92,51	,9342	61	,91375	—	50,77	146,78	3,99	68,13	,6880
12	,85722	—	9,99	108,85	1,14	91,87	,9278	62	,91450	—	51,60	147,57	4,03	67,76	,6843
13	,85893	—	10,82	109,60	1,22	91,24	,9214	63	,91525	—	52,43	148,36	4,07	67,40	,6807
14	,86060	—	11,65	110,35	1,30	90,62	,9151	64	,91598	—	53,26	149,15	4,11	67,04	,6770
100 + 15	,86223	—	12,48	111,11	1,37	90,00	,9088	100 + 65	,91670	—	54,10	149,94	4,16	66,69	,6734
16	,86384	—	13,32	111,87	1,45	89,39	,9027	66	,91742	—	54,93	150,73	4,20	66,34	,6699
17	,86542	—	14,15	112,63	1,52	88,79	,8966	67	,91814	—	55,76	151,52	4,24	65,99	,6664
18	,86697	—	14,98	113,39	1,59	88,19	,8906	68	,91885	—	56,59	152,32	4,27	65,65	,6630
19	,86850	—	15,81	114,15	1,66	87,60	,8847	69	,91955	—	57,43	153,10	4,33	65,31	,6595
100 + 20	,86997	—	16,65	114,91	1,74	87,02	,8787	100 + 70	,92023	—	58,26	153,89	4,37	64,98	,6561
21	,87145	—	17,48	115,67	1,81	86,45	,8729	71	,92090	—	59,09	154,68	4,41	64,65	,6527
22	,87288	—	18,31	116,43	1,88	85,88	,8672	72	,92157	—	59,92	155,48	4,44	64,32	,6494
23	,87429	—	19,14	117,20	1,94	85,32	,8616	73	,92222	—	60,75	156,27	4,48	63,99	,6461
24	,87567	—	19,97	117,97	2,00	84,77	,8559	74	,92286	—	61,59	157,07	4,52	63,67	,6429
100 + 25	,87703	—	20,80	118,73	2,07	84,22	,8504	100 + 75	,92348	—	62,42	157,86	4,56	63,35	,6397
26	,87836	—	21,64	119,50	2,14	83,68	,8450	76	,92412	—	63,25	158,65	4,60	63,03	,6364
27	,87967	—	22,47	120,27	2,20	83,15	,8396	77	,92474	—	64,08	159,46	4,62	62,71	,6332
28	,88096	—	23,30	121,05	2,25	82,62	,8343	78	,92535	—	64,92	160,24	4,68	62,40	,6301
29	,88222	—	24,14	121,81	2,33	82,09	,8290	79	,92596	—	65,75	161,04	4,71	62,10	,6270
100 + 30	,88345	—	24,97	122,59	2,38	81,58	,8237	100 + 80	,92656	—	66,58	161,83	4,75	61,79	,6239
31	,88468	—	25,80	123,36	2,44	81,07	,8186	81	,92715	—	67,41	162,63	4,78	61,49	,6208
32	,88588	—	26,63	124,14	2,49	80,56	,8135	82	,92774	—	68,24	163,43	4,81	61,19	,6178
33	,88707	—	27,46	124,91	2,55	80,06	,8085	83	,92831	—	69,08	164,22	4,86	60,89	,6148
34	,88824	—	28,30	125,68	2,62	79,57	,8035	84	,92889	—	69,91	165,02	4,89	60,60	,6119
100 + 35	,88939	—	29,13	126,45	2,68	79,08	,7985	100 + 85	,92945	—	70,74	165,81	4,93	60,31	,6090
36	,89052	—	29,96	127,23	2,73	78,60	,7937	86	,93001	—	71,57	166,62	4,95	60,02	,6061
37	,89163	—	30,80	128,00	2,80	78,12	,7889	87	,93059	—	72,41	167,41	5,00	59,74	,6032
38	,89271	—	31,63	128,78	2,85	77,65	,7841	88	,93110	—	73,24	168,21	5,03	59,45	,6003
39	,89379	—	32,46	129,56	2,90	77,18	,7794	89	,93164	—	74,07	169,01	5,06	59,17	,5975
100 + 40	,89484	—	33,30	130,34	2,96	76,72	,7748	100 + 90	,93215	—	74,91	169,81	5,10	58,89	,5947
41	,89590	—	34,13	131,11	3,02	76,27	,7702	91	,93267	—	75,74	170,61	5,13	58,62	,5919
42	,89694	—	34,95	131,89	3,06	75,82	,7657	92	,93317	—	76,57	171,41	5,16	58,34	,5891
43	,89796	—	35,79	132,66	3,13	75,38	,7612	93	,93367	—	77,41	172,21	5,20	58,07	,5864
44	,89897	—	36,62	133,44	3,18	74,94	,7567	94	,93417	—	78,23	173,01	5,22	57,80	,5837
100 + 45	,89997	—	37,45	134,22	3,23	74,50	,7523	100 + 95	,93466	—	79,06	173,81	5,25	57,54	,5810
46	,90095	—	38,28	135,00	3,28	74,07	,7480	96	,93514	—	79,88	174,60	5,28	57,28	,5784
47	,90189	—	39,12	135,78	3,34	73,65	,7437	97	,93562	—	80,71	175,40	5,31	57,01	,5758
48	,90284	—	39,95	136,56	3,39	73,23	,7395	98	,93610	—	81,55	176,19	5,36	56,75	,5732
49	,90376	—	40,78	137,34	3,44	72,81	,7353	99	,93657	—	82,38	177,00	5,38	56,50	,5705

TABLE II.

HEAT 43°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93703	100	83.23	177.81	5.42	56.24	.5679	100 + 50	.96342	100	166.46	259.41	7.05	38.55	.3893
99	.93751	—	84.09	178.62	5.47	55.98	.5653	49	.96398	—	169.86	262.78	7.08	38.06	.3843
98	.93798	—	84.94	179.45	5.49	55.72	.5626	48	.96454	—	173.39	266.30	7.09	37.55	.3792
97	.93845	—	85.81	180.29	5.52	55.46	.5600	47	.96509	—	177.08	269.97	7.11	37.04	.3741
96	.93892	—	86.70	181.15	5.55	55.20	.5574	46	.96565	—	180.93	273.81	7.12	36.52	.3688
100 + 95	.93940	—	87.61	182.02	5.59	54.93	.5547	100 + 45	.96621	—	184.96	277.82	7.14	35.99	.3635
94	.93987	—	88.54	182.93	5.61	54.66	.5520	44	.96675	—	189.16	282.01	7.15	35.45	.3581
93	.94034	—	89.49	183.85	5.64	54.39	.5493	43	.96729	—	193.56	286.42	7.14	34.91	.3526
92	.94080	—	90.46	184.79	5.67	54.11	.5465	42	.96784	—	198.16	291.03	7.13	34.36	.3470
91	.94128	—	91.46	185.75	5.71	53.83	.5437	41	.96838	—	203.00	295.85	7.15	33.80	.3413
100 + 90	.94176	—	92.48	186.74	5.74	53.55	.5407	100 + 40	.96890	—	208.07	300.92	7.15	33.23	.3356
89	.94226	—	93.52	187.73	5.78	53.26	.5379	39	.96944	—	213.40	306.27	7.13	32.65	.3297
88	.94276	—	94.58	188.77	5.81	52.97	.5350	38	.96997	—	219.02	311.90	7.12	32.06	.3238
87	.94326	—	95.66	189.83	5.83	52.68	.5320	37	.97049	—	224.95	317.84	7.11	31.46	.3177
86	.94377	—	96.77	190.92	5.85	52.38	.5290	36	.97102	—	231.19	324.11	7.08	30.85	.3116
100 + 85	.94428	—	97.91	192.01	5.90	52.08	.5259	100 + 35	.97154	—	237.80	330.73	7.07	30.24	.3053
84	.94479	—	99.08	193.15	5.93	51.78	.5228	34	.97207	—	244.79	337.75	7.04	29.61	.2990
83	.94530	—	100.27	194.31	5.96	51.47	.5197	33	.97260	—	252.20	345.22	6.98	28.97	.2925
82	.94581	—	101.50	195.50	6.00	51.15	.5166	32	.97313	—	260.10	353.14	6.96	28.32	.2860
81	.94632	—	102.75	196.71	6.04	50.83	.5134	31	.97366	—	268.48	361.56	6.92	27.66	.2793
100 + 80	.94683	—	104.03	197.97	6.06	50.51	.5101	100 + 30	.97420	—	277.44	370.55	6.89	26.98	.2725
79	.94736	—	105.35	199.25	6.10	50.19	.5068	29	.97473	—	286.99	380.18	6.81	26.30	.2656
78	.94788	—	106.70	200.56	6.14	49.86	.5035	28	.97527	—	297.25	390.49	6.76	25.61	.2586
77	.94841	—	108.09	201.91	6.18	49.52	.5001	27	.97582	—	308.26	401.57	6.69	24.90	.2515
76	.94894	—	109.51	203.30	6.21	49.18	.4967	26	.97638	—	320.12	413.50	6.62	24.18	.2442
100 + 75	.94947	—	110.97	204.72	6.25	48.84	.4932	100 + 25	.97694	—	332.92	426.35	6.57	23.45	.2368
74	.95000	—	112.47	206.19	6.28	48.50	.4897	24	.97753	—	346.79	440.30	6.49	22.71	.2293
73	.95054	—	114.02	207.68	6.34	48.15	.4861	23	.97813	—	361.86	455.47	6.39	21.95	.2217
72	.95108	—	115.59	209.24	6.35	47.79	.4826	22	.97874	—	378.32	472.00	6.32	21.18	.2139
71	.95163	—	117.22	210.83	6.39	47.43	.4790	21	.97937	—	396.33	490.11	6.22	20.40	.2060
100 + 70	.95217	—	118.89	212.48	6.41	47.06	.4752	100 + 20	.98002	—	416.15	510.03	6.12	19.61	.1980
69	.95272	—	120.61	214.17	6.44	46.69	.4715	19	.98067	—	438.05	532.04	6.01	18.80	.1898
68	.95327	—	122.38	215.90	6.48	46.31	.4677	18	.98134	—	462.40	556.50	5.90	17.97	.1814
67	.95383	—	124.21	217.69	6.52	45.93	.4639	17	.98204	—	489.59	583.82	5.77	17.13	.1729
66	.95439	—	126.10	219.54	6.56	45.55	.4600	16	.98277	—	520.20	614.55	5.65	16.27	.1643
100 + 65	.95495	—	128.04	221.44	6.60	45.16	.4560	100 + 15	.98352	—	554.88	649.38	5.50	15.40	.1555
64	.95550	—	130.14	223.41	6.63	44.76	.4520	14	.98430	—	594.51	689.17	5.34	14.51	.1465
63	.95606	—	132.10	225.44	6.66	44.36	.4479	13	.98512	—	640.20	735.06	5.14	13.60	.1374
62	.95663	—	134.23	227.53	6.70	43.95	.4438	12	.98598	—	693.59	788.57	5.02	12.68	.1280
61	.95719	—	136.44	229.71	6.73	43.53	.4396	11	.98688	—	756.64	851.81	4.83	11.74	.1185
100 + 60	.95775	—	138.71	231.95	6.76	43.11	.4353	100 + 10	.98782	—	832.31	927.63	4.68	10.78	.1089
59	.95831	—	141.06	234.27	6.79	42.68	.4310	9	.98882	—	924.79	1020.34	4.45	9.80	.0990
58	.95889	—	143.49	236.66	6.83	42.25	.4266	8	.98987	—	1040.39	1136.14	4.25	8.80	.0889
57	.95948	—	146.01	239.15	6.86	41.81	.4222	7	.99099	—	1189.02	1284.98	4.04	7.78	.0786
56	.96002	—	148.63	241.73	6.90	41.36	.4177	6	.99217	—	1387.19	1483.36	3.83	6.74	.0681
100 + 55	.96059	—	151.32	244.40	6.92	40.91	.4132	100 + 5	.99342	—	1604.03	1761.04	3.59	5.68	.0573
54	.96116	—	154.11	247.17	6.94	40.45	.4086	4	.99473	—	2080.77	2177.44	3.33	4.59	.0464
53	.96173	—	157.00	250.05	6.95	39.99	.4039	3	.99613	—	2773.36	2871.27	3.09	3.48	.0352
52	.96229	—	160.02	253.05	6.97	39.52	.3991	2	.99763	—	4161.48	4258.69	2.79	2.35	.0237
51	.96286	—	163.18	256.16	7.02	39.04	.3942	1	.99922	—	8323.10	8420.51	2.59	1.19	.0120



TABLE I.

HEAT 44°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	.83261	100	—	100,00	—	100,00	1,0092	100 + 50	.90424	100	41,59	138,12	3,47	72,40	.7307
1	.83490	—	0,83	100,72	0,11	99,28	1,0020	51	.90513	—	42,42	138,90	3,52	71,99	.7266
2	.83715	—	1,66	101,44	0,22	98,57	.9949	52	.90600	—	43,25	139,69	3,56	71,59	.7225
3	.83934	—	2,50	102,17	0,33	97,87	.9878	53	.90686	—	44,08	140,47	3,61	71,19	.7184
4	.84148	—	3,33	102,90	0,43	97,18	.9808	54	.90771	—	44,92	141,26	3,66	70,79	.7145
100 + 5	.84355	—	4,17	103,64	0,53	96,49	.9738	100 + 55	.90855	—	45,75	142,04	3,71	70,40	.7105
6	.84559	—	4,99	104,37	0,62	95,81	.9670	56	.90937	—	46,58	142,83	3,75	70,01	.7066
7	.84757	—	5,82	105,11	0,71	95,14	.9602	57	.91019	—	47,41	143,62	3,79	69,63	.7027
8	.84950	—	6,66	105,85	0,81	94,47	.9535	58	.91098	—	48,24	144,40	3,84	69,25	.6990
9	.85139	—	7,49	106,60	0,89	93,81	.9468	59	.91176	—	49,08	145,19	3,89	68,87	.6952
100 + 10	.85323	—	8,32	107,34	0,98	93,16	.9402	100 + 60	.91254	—	49,90	145,98	3,92	68,50	.6913
11	.85502	—	9,15	108,09	1,06	92,52	.9337	61	.91331	—	50,74	146,77	3,97	68,13	.6877
12	.85676	—	9,99	108,84	1,15	91,88	.9273	62	.91407	—	51,57	147,56	4,01	67,77	.6840
13	.85847	—	10,82	109,59	1,23	91,25	.9209	63	.91482	—	52,40	148,35	4,05	67,41	.6803
14	.86014	—	11,65	110,35	1,30	90,62	.9146	64	.91555	—	53,23	149,14	4,09	67,05	.6766
100 + 15	.86177	—	12,47	111,11	1,36	90,00	.9083	100 + 65	.91627	—	54,07	149,93	4,14	66,70	.6731
16	.86338	—	13,31	111,86	1,45	89,39	.9022	66	.91699	—	54,90	150,72	4,18	66,35	.6696
17	.86496	—	14,14	112,62	1,52	88,79	.8961	67	.91771	—	55,73	151,51	4,22	66,00	.6661
18	.86651	—	14,97	113,38	1,59	88,20	.8901	68	.91842	—	56,56	152,30	4,26	65,66	.6627
19	.86804	—	15,80	114,14	1,66	87,61	.8842	69	.91912	—	57,40	153,09	4,31	65,32	.6592
100 + 20	.86952	—	16,64	114,91	1,73	87,03	.8783	100 + 70	.91980	—	58,23	153,88	4,35	64,98	.6558
21	.87100	—	17,47	115,67	1,80	86,45	.8725	71	.92047	—	59,06	154,67	4,39	64,65	.6524
22	.87243	—	18,30	116,43	1,87	85,88	.8668	72	.92114	—	59,89	155,47	4,42	64,32	.6491
23	.87384	—	19,13	117,19	1,94	85,32	.8612	73	.92179	—	60,72	156,26	4,46	63,99	.6458
24	.87522	—	19,96	117,96	2,00	84,77	.8556	74	.92243	—	61,55	157,05	4,50	63,67	.6426
100 + 25	.87658	—	20,79	118,73	2,06	84,23	.8500	100 + 75	.92305	—	62,39	157,85	4,54	63,35	.6394
26	.87791	—	21,63	119,50	2,13	83,69	.8445	76	.92370	—	63,22	158,64	4,58	63,03	.6361
27	.87922	—	22,46	120,27	2,19	83,15	.8392	77	.92432	—	64,05	159,44	4,61	62,72	.6330
28	.88051	—	23,29	121,04	2,25	82,62	.8339	78	.92493	—	64,88	160,23	4,65	62,41	.6299
29	.88177	—	24,13	121,81	2,32	82,09	.8286	79	.92553	—	65,71	161,02	4,69	62,10	.6268
100 + 30	.88300	—	24,96	122,58	2,38	81,58	.8233	100 + 80	.92613	—	66,55	161,82	4,73	61,80	.6237
31	.88423	—	25,78	123,36	2,42	81,07	.8182	81	.92673	—	67,37	162,61	4,76	61,49	.6206
32	.88543	—	26,61	124,13	2,48	80,56	.8131	82	.92731	—	68,20	163,41	4,79	61,19	.6176
33	.88662	—	27,44	124,90	2,54	80,07	.8081	83	.92788	—	69,05	164,21	4,84	60,89	.6146
34	.88779	—	28,29	125,67	2,62	79,58	.8031	84	.92846	—	69,87	165,01	4,86	60,60	.6116
100 + 35	.88894	—	29,12	126,45	2,67	79,09	.7981	100 + 85	.92902	—	70,70	165,79	4,91	60,31	.6087
36	.89007	—	29,95	127,22	2,73	78,61	.7933	86	.92958	—	71,53	166,60	4,93	60,02	.6058
37	.89118	—	30,78	127,99	2,79	78,13	.7885	87	.93017	—	72,37	167,40	4,97	59,74	.6029
38	.89227	—	31,61	128,77	2,84	77,66	.7837	88	.93077	—	73,20	168,19	5,01	59,46	.6001
39	.89335	—	32,44	129,55	2,89	77,19	.7790	89	.93121	—	74,03	168,99	5,04	59,18	.5973
100 + 40	.89440	—	33,28	130,33	2,95	76,73	.7744	100 + 90	.93173	—	74,87	169,79	5,08	58,90	.5944
41	.89546	—	34,11	131,10	3,01	76,28	.7698	91	.93225	—	75,70	170,59	5,11	58,62	.5916
42	.89650	—	34,94	131,88	3,06	75,83	.7653	92	.93175	—	76,53	171,39	5,14	58,35	.5888
43	.89752	—	35,77	132,65	3,12	75,38	.7608	93	.93325	—	77,37	172,19	5,18	58,08	.5861
44	.89853	—	36,60	133,43	3,17	74,94	.7563	94	.93375	—	78,19	172,99	5,20	57,81	.5834
100 + 45	.89953	—	37,43	134,21	3,22	74,51	.7519	100 + 95	.93424	—	79,02	173,79	5,23	57,54	.5807
46	.90051	—	38,26	134,99	3,27	74,08	.7476	96	.93472	—	79,84	174,58	5,26	57,28	.5781
47	.90145	—	39,10	135,77	3,33	73,65	.7433	97	.93520	—	80,67	175,38	5,29	57,02	.5755
48	.90240	—	39,93	136,55	3,38	73,23	.7391	98	.93568	—	81,50	176,17	5,33	56,76	.5729
49	.90333	—	40,76	137,33	3,43	72,81	.7349	99	.93615	—	82,34	176,98	5,36	56,50	.5703

TABLE II.

HEAT 44°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and Spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93662	100	83,18	177,79	5,39	56,24	.5676	100 + 50	.96311	100	166,37	259,35	7,02	38,56	.3891
99	.93710	—	84,04	178,60	5,44	55,99	.5650	49	.96368	—	169,77	262,72	7,05	38,06	.3842
98	.93757	—	84,89	179,43	5,46	55,73	.5624	48	.96424	—	173,30	266,24	7,06	37,56	.3791
97	.93804	—	85,76	180,27	5,49	55,47	.5598	47	.96480	—	176,99	269,91	7,08	37,05	.3740
96	.93852	—	86,65	181,13	5,52	55,21	.5571	46	.96536	—	180,83	273,74	7,09	36,53	.3687
100 + 95	.93900	—	87,56	182,00	5,56	54,94	.5545	100 + 45	.96592	—	184,86	277,75	7,11	35,00	.3634
94	.93947	—	88,49	182,90	5,59	54,67	.5518	44	.96647	—	189,06	281,94	7,12	35,46	.3580
93	.93994	—	89,44	183,82	5,62	54,40	.5491	43	.96702	—	193,46	286,34	7,12	34,92	.3525
92	.94041	—	90,41	184,77	5,64	54,12	.5462	42	.96757	—	198,06	290,95	7,11	34,37	.3469
91	.94088	—	91,41	185,73	5,68	53,84	.5434	41	.96812	—	202,89	295,77	7,12	33,81	.3412
100 + 90	.94136	—	92,43	186,72	5,71	53,55	.5405	100 + 40	.96865	—	207,96	300,83	7,13	33,24	.3355
89	.94186	—	93,47	187,71	5,76	53,26	.5377	39	.96919	—	213,29	306,18	7,11	32,66	.3296
88	.94236	—	94,53	188,75	5,78	52,97	.5348	38	.96973	—	218,90	311,81	7,09	32,07	.3237
87	.94286	—	95,61	189,80	5,81	52,68	.5318	37	.97026	—	224,83	317,74	7,09	31,47	.3177
86	.94337	—	96,72	190,89	5,83	52,39	.5288	36	.97079	—	231,07	324,01	7,06	30,86	.3115
100 + 85	.94388	—	97,86	191,98	5,88	52,09	.5257	100 + 35	.97132	—	237,67	330,62	7,05	30,25	.3052
84	.94439	—	99,03	193,12	5,91	51,79	.5226	34	.97186	—	244,66	337,64	7,02	29,62	.2989
83	.94490	—	100,22	194,28	5,94	51,48	.5195	33	.97240	—	252,07	345,10	6,97	28,98	.2925
82	.94540	—	101,45	195,47	5,98	51,16	.5164	32	.97294	—	259,96	353,02	6,94	28,33	.2859
81	.94593	—	102,69	196,68	6,01	50,84	.5132	31	.97348	—	268,34	361,43	6,91	27,67	.2792
100 + 80	.94644	—	103,97	197,94	6,03	50,52	.5099	100 + 30	.97402	—	277,29	370,41	6,88	27,00	.2724
79	.94697	—	105,29	199,22	6,07	50,19	.5066	29	.97456	—	286,84	380,04	6,80	26,31	.2655
78	.94750	—	106,64	200,53	6,11	49,86	.5033	28	.97511	—	297,09	390,34	6,75	25,62	.2586
77	.94803	—	108,03	201,88	6,15	49,53	.4999	27	.97567	—	308,09	401,42	6,67	24,91	.2515
76	.94855	—	109,45	203,27	6,18	49,19	.4965	26	.97623	—	319,95	413,34	6,61	24,19	.2442
100 + 75	.94909	—	110,91	204,69	6,22	48,85	.4930	100 + 25	.97680	—	332,74	426,18	6,56	23,46	.2368
74	.94963	—	112,41	206,16	6,25	48,50	.4895	24	.97740	—	346,60	440,12	6,48	22,72	.2293
73	.95017	—	113,96	207,65	6,31	48,15	.4859	23	.97800	—	361,67	455,28	6,39	21,96	.2217
72	.95071	—	115,53	209,20	6,33	47,80	.4824	22	.97862	—	378,12	471,80	6,32	21,19	.2139
71	.95126	—	117,16	210,80	6,36	47,44	.4788	21	.97926	—	396,12	489,90	6,22	20,41	.2060
100 + 70	.95180	—	118,83	212,44	6,39	47,07	.4751	100 + 20	.97991	—	415,93	509,80	6,13	19,62	.1980
69	.95236	—	120,55	214,13	6,42	46,70	.4713	19	.98057	—	437,82	531,80	6,02	18,81	.1897
68	.95291	—	122,32	215,86	6,46	46,32	.4675	18	.98125	—	462,15	556,24	5,91	17,98	.1814
67	.95347	—	124,14	217,65	6,49	45,94	.4637	17	.98196	—	489,33	583,55	5,78	17,14	.1729
66	.95403	—	126,03	219,50	6,53	45,56	.4598	16	.98269	—	519,92	614,26	5,66	16,28	.1643
100 + 65	.95459	—	127,97	221,40	6,57	45,17	.4558	100 + 15	.98345	—	554,58	649,07	5,51	15,41	.1555
64	.95515	—	130,07	223,37	6,60	44,77	.4519	14	.98424	—	594,19	688,83	5,36	14,52	.1465
63	.95571	—	132,03	225,40	6,63	44,37	.4478	13	.98506	—	639,85	734,70	5,15	13,61	.1374
62	.95628	—	134,16	227,49	6,67	43,96	.4436	12	.98593	—	693,22	788,18	5,04	12,69	.1280
61	.95684	—	136,37	229,67	6,70	43,54	.4394	11	.98683	—	756,23	851,38	4,85	11,74	.1185
100 + 60	.95740	—	138,64	231,90	6,74	43,12	.4352	100 + 10	.98778	—	831,86	927,16	4,70	10,78	.1088
59	.95797	—	140,99	234,22	6,77	42,69	.4309	9	.98879	—	924,29	1019,81	4,48	9,80	.0990
58	.95855	—	143,41	236,61	6,80	42,26	.4265	8	.98984	—	1039,83	1135,54	4,29	8,81	.0889
57	.95915	—	145,93	239,10	6,83	41,82	.4220	7	.99097	—	1188,38	1284,30	4,08	7,79	.0786
56	.95969	—	148,55	241,68	6,87	41,37	.4176	6	.99215	—	1386,44	1482,57	3,87	6,74	.0681
100 + 55	.96026	—	151,24	244,35	6,89	40,92	.4130	100 + 5	.99340	—	1663,73	1760,09	3,64	5,68	.0573
54	.96084	—	154,03	247,11	6,92	40,46	.4085	4	.99472	—	2079,65	2176,26	3,39	4,60	.0464
53	.96141	—	156,91	249,99	6,92	40,00	.4038	3	.99612	—	2772,87	2869,71	3,16	3,48	.0352
52	.96197	—	159,94	252,99	6,95	39,53	.3990	2	.99762	—	4159,23	4256,39	2,84	2,35	.0237
51	.96255	—	163,09	256,10	6,99	39,05	.3941	1	.99921	—	8318,63	8415,96	2,67	1,19	.0120

TABLE I.

HEAT 45°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83214	100	—	100,00	—	100,00	1,0087	100 + 50	,90380	100	41,57	138,11	3,46	72,41	,7303
1	,83444	—	0,83	100,72	0,11	99,28	1,0014	51	,90469	—	42,40	138,89	3,51	72,00	,7262
2	,83669	—	1,66	101,44	0,22	98,58	,9943	52	,90557	—	43,23	139,68	3,55	71,59	,7221
3	,83888	—	2,49	102,17	0,32	97,88	,9872	53	,90643	—	44,06	140,46	3,60	71,19	,7181
4	,84102	—	3,32	102,90	0,42	97,18	,9802	54	,90728	—	44,89	141,25	3,64	70,80	,7141
100 + 5	,84310	—	4,16	103,63	0,53	96,49	,9733	100 + 55	,90812	—	45,73	142,03	3,70	70,41	,7102
6	,84513	—	4,99	104,37	0,62	95,81	,9664	56	,90894	—	46,56	142,82	3,74	70,02	,7063
7	,84711	—	5,82	105,11	0,71	95,14	,9596	57	,90975	—	47,39	143,61	3,78	69,63	,7024
8	,84904	—	6,65	105,85	0,80	94,47	,9529	58	,91054	—	48,22	144,39	3,83	69,25	,6986
9	,85093	—	7,48	106,59	0,89	93,81	,9463	59	,91132	—	49,05	145,18	3,87	68,88	,6948
100 + 10	,85277	—	8,31	107,34	0,97	93,16	,9397	100 + 60	,91211	—	49,88	145,97	3,91	68,51	,6910
11	,85456	—	9,14	108,09	1,05	92,52	,9332	61	,91287	—	50,72	146,76	3,96	68,14	,6873
12	,85630	—	9,98	108,84	1,14	91,88	,9268	62	,91363	—	51,55	147,55	4,00	67,77	,6836
13	,85801	—	10,81	109,59	1,22	91,25	,9204	63	,91438	—	52,38	148,34	4,04	67,41	,6799
14	,85968	—	11,64	110,35	1,29	90,63	,9141	64	,91511	—	53,21	149,13	4,08	67,05	,6763
100 + 15	,86131	—	12,47	111,10	1,37	90,01	,9078	100 + 65	,91584	—	54,04	149,92	4,12	66,70	,6728
16	,86292	—	13,30	111,86	1,44	89,39	,9017	66	,91656	—	54,87	150,71	4,16	66,35	,6693
17	,86450	—	14,13	112,62	1,51	88,79	,8956	67	,91728	—	55,70	151,50	4,20	66,00	,6658
18	,86605	—	14,96	113,38	1,58	88,20	,8896	68	,91799	—	56,53	152,29	4,24	65,66	,6623
19	,86758	—	15,79	114,14	1,65	87,61	,8837	69	,91869	—	57,37	153,08	4,29	65,33	,6589
100 + 20	,86905	—	16,63	114,90	1,73	87,03	,8778	100 + 70	,91937	—	58,20	153,87	4,33	64,99	,6555
21	,87054	—	17,46	115,66	1,80	86,46	,8721	71	,92004	—	59,03	154,66	4,37	64,66	,6521
22	,87198	—	18,29	116,42	1,87	85,89	,8664	72	,92071	—	59,86	155,46	4,40	64,33	,6488
23	,87339	—	19,12	117,19	1,93	85,33	,8607	73	,92136	—	60,69	156,25	4,44	64,00	,6455
24	,87477	—	19,95	117,96	1,99	84,78	,8551	74	,92200	—	61,52	157,04	4,48	63,68	,6423
100 + 25	,87613	—	20,78	118,72	2,06	84,23	,8496	100 + 75	,92264	—	62,36	157,83	4,53	63,36	,6391
26	,87746	—	21,62	119,49	2,13	83,69	,8441	76	,92327	—	63,19	158,63	4,56	63,04	,6359
27	,87877	—	22,45	120,26	2,19	83,15	,8387	77	,92389	—	64,02	159,42	4,60	62,73	,6327
28	,88005	—	23,28	121,03	2,25	82,62	,8334	78	,92450	—	64,85	160,22	4,63	62,42	,6296
29	,88131	—	24,11	121,80	2,31	82,10	,8281	79	,92510	—	65,68	161,01	4,67	62,11	,6265
100 + 30	,88255	—	24,94	122,57	2,37	81,58	,8229	100 + 80	,92570	—	66,51	161,81	4,70	61,80	,6234
31	,88377	—	25,77	123,35	2,42	81,07	,8177	81	,92629	—	67,34	162,60	4,74	61,50	,6203
32	,88498	—	26,60	124,12	2,48	80,57	,8126	82	,92688	—	68,17	163,40	4,77	61,20	,6173
33	,88617	—	27,43	124,89	2,54	80,07	,8076	83	,92745	—	69,01	164,19	4,82	60,90	,6143
34	,88734	—	28,27	125,66	2,61	79,58	,8026	84	,92803	—	69,84	164,99	4,85	60,61	,6113
100 + 35	,88849	—	29,10	126,44	2,66	79,09	,7977	100 + 85	,92859	—	70,67	165,78	4,89	60,32	,6084
36	,88962	—	29,93	127,21	2,72	78,61	,7929	86	,92915	—	71,50	166,58	4,92	60,03	,6055
37	,89073	—	30,76	127,99	2,77	78,13	,7881	87	,92970	—	72,33	167,38	4,95	59,75	,6026
38	,89182	—	31,59	128,76	2,83	77,66	,7833	88	,93024	—	73,16	168,17	4,99	59,46	,5998
39	,89290	—	32,42	129,54	2,88	77,19	,7786	89	,93078	—	73,99	168,97	5,02	59,18	,5970
100 + 40	,89396	—	33,26	130,32	2,94	76,73	,7740	100 + 90	,93131	—	74,83	169,77	5,06	58,90	,5941
41	,89502	—	34,09	131,09	3,00	76,28	,7694	91	,93182	—	75,66	170,57	5,09	58,63	,5913
42	,89606	—	34,92	131,87	3,05	75,83	,7649	92	,93233	—	76,49	171,37	5,12	58,35	,5886
43	,89708	—	35,75	132,65	3,10	75,39	,7604	93	,93283	—	77,32	172,17	5,15	58,08	,5859
44	,89809	—	36,58	133,42	3,16	74,95	,7560	94	,93333	—	78,15	172,97	5,18	57,81	,5832
100 + 45	,89909	—	37,41	134,20	3,21	74,51	,7516	100 + 95	,93382	—	78,98	173,77	5,21	57,55	,5805
46	,90007	—	38,24	134,98	3,26	74,08	,7472	96	,93430	—	79,80	174,56	5,24	57,29	,5778
47	,90102	—	39,08	135,76	3,32	73,66	,7429	97	,93478	—	80,63	175,35	5,28	57,03	,5752
48	,90196	—	39,91	136,54	3,37	73,24	,7387	98	,93526	—	81,46	176,15	5,31	56,77	,5726
49	,90289	—	40,74	137,32	3,42	72,82	,7345	99	,93574	—	82,30	176,96	5,34	56,51	,5700



TABLE II.

HEAT 45°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93621	100	83,14	177,76	5,38	56,25	.5674	100 + 50	.96280	100	166,28	259,29	6,99	38,57	.3890
99	.93669	—	83,99	178,58	5,41	56,00	.5648	49	.96337	—	169,68	262,66	7,02	38,07	.3840
98	.93717	—	84,85	179,41	5,44	55,74	.5622	48	.96394	—	173,21	266,18	7,03	37,57	.3789
97	.93764	—	85,72	180,25	5,47	55,48	.5596	47	.96450	—	176,90	269,85	7,05	37,06	.3738
96	.93812	—	86,61	181,11	5,50	55,22	.5569	46	.96507	—	180,74	273,68	7,06	36,54	.3686
100 + 95	.93860	—	87,52	181,98	5,54	54,95	.5543	100 + 45	.96563	—	184,76	277,68	7,08	36,01	.3633
94	.93907	—	88,45	182,88	5,57	54,68	.5515	44	.96619	—	188,96	281,87	7,09	35,47	.3579
93	.93954	—	89,40	183,80	5,60	54,41	.5488	43	.96674	—	193,36	286,26	7,10	34,93	.3524
92	.94001	—	90,37	184,75	5,62	54,13	.5460	42	.96730	—	197,96	290,87	7,09	34,38	.3468
91	.94048	—	91,36	185,71	5,65	53,85	.5432	41	.96785	—	202,78	295,69	7,09	33,82	.3411
100 + 90	.94096	—	92,38	186,69	5,69	53,56	.5403	100 + 40	.96840	—	207,85	300,75	7,10	33,25	.3354
89	.94146	—	93,42	187,69	5,73	53,27	.5374	39	.96894	—	213,18	306,09	7,09	32,67	.3295
88	.94196	—	94,48	188,72	5,76	52,98	.5345	38	.96948	—	218,79	311,71	7,08	32,08	.3236
87	.94246	—	95,56	189,78	5,78	52,69	.5315	37	.97002	—	224,71	317,64	7,07	31,48	.3176
86	.94297	—	96,67	190,86	5,81	52,39	.5285	36	.97056	—	230,95	323,91	7,04	30,87	.3114
100 + 85	.94348	—	97,81	191,96	5,85	52,09	.5254	100 + 35	.97110	—	237,55	330,52	7,03	30,26	.3052
84	.94399	—	98,98	193,09	5,89	51,79	.5223	34	.97164	—	244,53	337,53	7,00	29,63	.2988
83	.94450	—	100,17	194,25	5,92	51,48	.5192	33	.97219	—	251,94	344,98	6,96	28,99	.2924
82	.94501	—	101,39	195,44	5,95	51,17	.5161	32	.97274	—	259,82	352,90	6,92	28,34	.2859
81	.94553	—	102,64	196,66	5,98	50,85	.5129	31	.97329	—	268,20	361,31	6,89	27,68	.2792
100 + 80	.94605	—	103,92	197,91	6,01	50,53	.5097	100 + 30	.97384	—	277,14	370,28	6,86	27,01	.2724
79	.94658	—	105,24	199,19	6,05	50,20	.5064	29	.97439	—	286,69	379,90	6,79	26,32	.2655
78	.94711	—	106,59	200,50	6,09	49,87	.5031	28	.97494	—	296,93	390,20	6,73	25,63	.2585
77	.94764	—	107,98	201,85	6,13	49,54	.4997	27	.97551	—	307,93	401,27	6,66	24,92	.2514
76	.94817	—	109,40	203,24	6,16	49,20	.4963	26	.97608	—	319,78	413,19	6,59	24,20	.2441
100 + 75	.94871	—	110,86	204,66	6,20	48,86	.4928	100 + 25	.97666	—	332,57	426,01	6,56	23,47	.2368
74	.94925	—	112,35	206,12	6,23	48,51	.4893	24	.97726	—	346,42	439,94	6,48	22,73	.2293
73	.94979	—	113,89	207,62	6,27	48,16	.4858	23	.97787	—	361,48	455,09	6,39	21,97	.2217
72	.95033	—	115,47	209,17	6,30	47,81	.4822	22	.97850	—	377,92	471,60	6,32	21,20	.2139
71	.95088	—	117,10	210,77	6,33	47,45	.4786	21	.97914	—	395,91	489,69	6,22	20,42	.2060
100 + 70	.95143	—	118,77	212,41	6,36	47,08	.4749	100 + 20	.97980	—	415,71	509,58	6,13	19,62	.1979
69	.95199	—	120,49	214,09	6,40	46,71	.4711	19	.98047	—	437,59	531,56	6,03	18,81	.1897
68	.95254	—	122,26	215,82	6,44	46,33	.4673	18	.98116	—	461,90	555,99	5,91	17,98	.1814
67	.95310	—	124,08	217,61	6,47	45,95	.4635	17	.98187	—	489,07	583,28	5,79	17,14	.1729
66	.95367	—	125,96	219,46	6,50	45,56	.4596	16	.98261	—	519,63	613,97	5,66	16,29	.1643
100 + 65	.95423	—	127,90	221,36	6,54	45,17	.4557	100 + 15	.98338	—	554,28	648,76	5,52	15,41	.1555
64	.95479	—	129,90	223,32	6,58	44,78	.4517	14	.98417	—	593,87	688,50	5,37	14,52	.1465
63	.95535	—	131,96	225,35	6,61	44,38	.4476	13	.98500	—	639,55	734,34	5,21	13,61	.1374
62	.95592	—	134,09	227,45	6,64	43,97	.4434	12	.98587	—	692,85	787,79	5,06	12,69	.1280
61	.95649	—	136,30	229,62	6,68	43,55	.4392	11	.98678	—	755,83	850,95	4,88	11,75	.1185
100 + 60	.95705	—	138,57	231,85	6,72	43,13	.4350	100 + 10	.98774	—	831,42	926,69	4,73	10,79	.1088
59	.95762	—	140,91	234,17	6,74	42,70	.4307	9	.98875	—	923,80	1019,29	4,51	9,81	.0990
58	.95820	—	143,34	236,57	6,77	42,27	.4263	8	.98981	—	1039,27	1134,95	4,32	8,81	.0880
57	.95878	—	145,86	239,05	6,81	41,83	.4219	7	.99094	—	1187,74	1283,62	4,12	7,79	.0786
56	.95935	—	148,47	241,63	6,84	41,38	.4174	6	.99213	—	1385,70	1481,78	3,92	6,75	.0681
100 + 55	.95993	—	151,16	244,30	6,86	40,93	.4129	100 + 5	.99338	—	1662,83	1759,14	3,69	5,69	.0573
54	.96051	—	153,93	247,06	6,87	40,47	.4083	4	.99470	—	2078,54	2175,09	3,45	4,60	.0464
53	.96108	—	156,83	249,93	6,90	40,01	.4036	3	.99611	—	2771,39	2868,16	3,23	3,49	.0352
52	.96165	—	159,86	252,93	6,93	39,54	.3988	2	.99761	—	4156,99	4254,09	2,90	2,35	.0237
51	.96223	—	163,01	256,05	6,96	39,06	.3939	1	.99919	—	8314,17	8411,41	2,76	1,19	.0120

TABLE I.

HEAT 46°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	.83167	100	—	100.00	—	100.00	1.0081	100 + 50	.90336	100	41.55	138.09	3.46	72.41	.7300
1	.83397	—	0.83	100.72	0.11	99.28	1.0009	51	.90426	—	42.38	138.87	3.51	72.01	.7259
2	.83622	—	1.66	101.44	0.22	98.58	.9938	52	.90514	—	43.20	139.66	3.54	71.60	.7218
3	.83842	—	2.49	102.17	0.32	97.88	.9867	53	.90600	—	44.03	140.44	3.59	71.20	.7178
4	.84056	—	3.32	102.90	0.42	97.18	.9797	54	.90685	—	44.87	141.23	3.64	70.81	.7138
100 + 5	.84263	—	4.16	103.63	0.53	96.49	.9727	100 + 55	.90768	—	45.70	142.01	3.69	70.42	.7098
6	.84467	—	4.99	104.37	0.62	95.81	.9659	56	.90851	—	46.53	142.80	3.73	70.03	.7059
7	.84665	—	5.82	105.11	0.71	95.14	.9591	57	.90932	—	47.36	143.59	3.77	69.64	.7021
8	.84858	—	6.65	105.85	0.80	94.47	.9524	58	.91011	—	48.19	144.37	3.82	69.26	.6983
9	.85046	—	7.48	106.59	0.89	93.81	.9458	59	.91089	—	49.02	145.16	3.86	68.89	.6945
100 + 10	.85230	—	8.31	107.34	0.97	93.16	.9392	100 + 60	.91169	—	49.85	145.95	3.90	68.51	.6907
11	.85410	—	9.14	108.09	1.05	92.52	.9327	61	.91244	—	50.69	146.74	3.95	68.14	.6870
12	.85584	—	9.97	108.84	1.13	91.88	.9263	62	.91320	—	51.52	147.53	3.99	67.78	.6833
13	.85755	—	10.81	109.59	1.22	91.25	.9199	63	.91395	—	52.35	148.32	4.03	67.42	.6796
14	.85922	—	11.63	110.35	1.28	90.63	.9136	64	.91468	—	53.18	149.11	4.07	67.06	.6760
100 + 15	.86085	—	12.46	111.10	1.36	90.01	.9074	100 + 65	.91542	—	54.01	149.90	4.11	66.71	.6725
16	.86247	—	13.30	111.86	1.44	89.40	.9013	66	.91614	—	54.84	150.69	4.15	66.36	.6690
17	.86404	—	14.12	112.62	1.50	88.79	.8952	67	.91686	—	55.67	151.48	4.19	66.01	.6655
18	.86559	—	14.95	113.38	1.57	88.20	.8892	68	.91757	—	56.50	152.27	4.23	65.67	.6620
19	.86712	—	15.78	114.14	1.64	87.61	.8833	69	.91826	—	57.33	153.06	4.27	65.33	.6586
100 + 20	.86859	—	16.62	114.90	1.72	87.03	.8774	100 + 70	.91895	—	58.16	153.85	4.31	65.00	.6552
21	.87008	—	17.45	115.66	1.79	86.46	.8716	71	.91962	—	59.00	154.64	4.36	64.67	.6519
22	.87152	—	18.28	116.42	1.86	85.89	.8660	72	.92028	—	59.82	155.44	4.38	64.34	.6486
23	.87293	—	19.11	117.18	1.93	85.33	.8603	73	.92094	—	60.65	156.23	4.42	64.01	.6453
24	.87431	—	19.94	117.95	1.99	84.78	.8547	74	.92158	—	61.48	157.02	4.46	63.69	.6420
100 + 25	.87568	—	20.77	118.72	2.05	84.23	.8491	100 + 75	.92221	—	62.32	157.81	4.51	63.37	.6388
26	.87700	—	21.61	119.48	2.13	83.69	.8437	76	.92285	—	63.15	158.61	4.54	63.05	.6356
27	.87832	—	22.44	120.26	2.18	83.16	.8383	77	.92347	—	63.98	159.40	4.58	62.73	.6324
28	.87960	—	23.27	121.03	2.24	82.63	.8330	78	.92408	—	64.81	160.20	4.61	62.42	.6293
29	.88086	—	24.10	121.80	2.30	82.10	.8277	79	.92468	—	65.64	160.99	4.65	62.11	.6262
100 + 30	.88210	—	24.93	122.57	2.36	81.59	.8225	100 + 80	.92527	—	66.47	161.79	4.68	61.81	.6231
31	.88332	—	25.76	123.34	2.42	81.08	.8173	81	.92587	—	67.30	162.58	4.72	61.50	.6200
32	.88454	—	26.59	124.11	2.48	80.57	.8122	82	.92646	—	68.13	163.38	4.75	61.20	.6170
33	.88573	—	27.42	124.88	2.54	80.07	.8072	83	.92703	—	68.97	164.17	4.80	60.91	.6140
34	.88690	—	28.25	125.65	2.60	79.58	.8022	84	.92761	—	69.80	164.98	4.82	60.61	.6111
100 + 35	.88804	—	29.09	126.43	2.66	79.10	.7973	100 + 85	.92816	—	70.63	165.76	4.87	60.32	.6081
36	.88917	—	29.91	127.20	2.71	78.62	.7925	86	.92873	—	71.46	166.57	4.89	60.03	.6053
37	.89029	—	30.74	127.98	2.76	78.14	.7877	87	.92928	—	72.29	167.36	4.93	59.75	.6024
38	.89138	—	31.57	128.75	2.82	77.67	.7829	88	.92982	—	73.12	168.16	4.98	59.47	.5996
39	.89246	—	32.40	129.53	2.87	77.20	.7782	89	.93036	—	73.95	168.95	5.00	59.19	.5967
100 + 40	.89351	—	33.24	130.31	2.93	76.74	.7736	100 + 90	.93089	—	74.79	169.75	5.04	58.91	.5939
41	.89458	—	34.07	131.08	2.99	76.29	.7691	91	.93140	—	75.62	170.55	5.07	58.64	.5910
42	.89562	—	34.90	131.86	3.04	75.84	.7646	92	.93192	—	76.45	171.34	5.11	58.36	.5883
43	.89664	—	35.73	132.64	3.09	75.39	.7601	93	.93242	—	77.28	172.15	5.13	58.09	.5856
44	.89765	—	36.56	133.41	3.15	74.95	.7557	94	.93292	—	78.10	172.95	5.15	57.82	.5830
100 + 45	.89864	—	37.39	134.19	3.20	74.52	.7512	100 + 95	.93341	—	78.93	173.74	5.19	57.56	.5802
46	.89962	—	38.22	134.97	3.25	74.09	.7469	96	.93389	—	79.75	174.53	5.22	57.30	.5776
47	.90058	—	39.05	135.75	3.30	73.66	.7426	97	.93437	—	80.59	175.33	5.26	57.04	.5750
48	.90152	—	39.88	136.53	3.35	73.24	.7384	98	.93485	—	81.41	176.13	5.28	56.78	.5724
49	.90245	—	40.72	137.31	3.41	72.82	.7342	99	.93533	—	82.25	176.93	5.32	56.52	.5698

TABLE II.

HEAT 46°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93580	100	83.09	177.74	5.35	56.26	.5672	100 + 50	.96250	100	166.19	259.22	6.97	38.57	.3889
99	.93629	—	83.94	178.55	5.39	56.00	.5646	49	.96307	—	169.59	262.60	6.99	38.08	.3839
98	.93676	—	84.80	179.38	5.42	55.74	.5619	48	.96364	—	173.11	266.11	7.00	37.58	.3788
97	.93724	—	85.67	180.22	5.45	55.48	.5593	47	.96421	—	176.80	269.78	7.02	37.07	.3737
96	.93772	—	86.56	181.08	5.48	55.22	.5567	46	.96478	—	180.64	273.61	7.03	36.55	.3685
100 + 95	.93820	—	87.47	181.95	5.52	54.95	.5540	100 + 45	.96535	—	184.66	277.60	7.06	36.02	.3632
94	.93867	—	88.40	182.85	5.55	54.09	.5513	44	.96591	—	188.86	281.79	7.07	35.48	.3578
93	.93914	—	89.35	183.77	5.58	54.41	.5486	43	.96647	—	193.25	286.18	7.07	34.94	.3523
92	.93961	—	90.32	184.72	5.60	54.14	.5458	42	.96703	—	197.85	290.78	7.07	34.39	.3467
91	.94008	—	91.31	185.68	5.63	53.86	.5430	41	.96759	—	202.67	295.60	7.07	33.83	.3410
100 + 90	.94057	—	92.33	186.67	5.66	53.57	.5400	100 + 40	.96814	—	207.74	300.66	7.08	33.26	.3353
89	.94106	—	93.37	187.66	5.71	53.28	.5372	39	.96869	—	213.06	305.99	7.07	32.68	.3295
88	.94156	—	94.43	188.70	5.73	52.99	.5343	38	.96923	—	218.67	311.61	7.06	32.09	.3235
87	.94207	—	95.51	189.75	5.76	52.70	.5313	37	.96978	—	224.59	317.53	7.06	31.49	.3175
86	.94258	—	96.62	190.84	5.78	52.40	.5283	36	.97033	—	230.82	323.80	7.02	30.88	.3113
100 + 85	.94309	—	97.75	191.93	5.82	52.10	.5252	100 + 35	.97087	—	237.42	330.41	7.01	30.27	.3051
84	.94360	—	98.92	193.07	5.85	51.80	.5221	34	.97142	—	244.40	337.42	6.98	29.64	.2988
83	.94411	—	100.12	194.22	5.90	51.49	.5190	33	.97198	—	251.80	344.86	6.94	29.00	.2924
82	.94462	—	101.33	195.41	5.92	51.17	.5159	32	.97253	—	259.68	352.77	6.91	28.35	.2858
81	.94514	—	102.58	196.63	5.95	50.86	.5127	31	.97309	—	268.05	361.18	6.87	27.69	.2792
100 + 80	.94566	—	103.86	197.88	5.98	50.54	.5094	100 + 30	.97364	—	276.99	370.14	6.85	27.02	.2724
79	.94620	—	105.18	199.16	6.02	50.21	.5062	29	.97420	—	286.53	379.76	6.77	26.33	.2655
78	.94673	—	106.53	200.47	6.06	49.88	.5029	28	.97476	—	296.77	390.05	6.72	25.64	.2585
77	.94727	—	107.92	201.81	6.11	49.54	.4995	27	.97534	—	307.76	401.11	6.65	24.93	.2514
76	.94780	—	109.34	203.21	6.13	49.21	.4961	26	.97692	—	319.60	413.02	6.58	24.21	.2441
100 + 75	.94834	—	110.80	204.62	6.18	48.87	.4926	100 + 25	.97650	—	332.39	425.83	6.56	23.48	.2367
74	.94888	—	112.29	206.08	6.21	48.52	.4892	24	.97712	—	346.23	439.75	6.48	22.74	.2293
73	.94942	—	113.82	207.58	6.24	48.17	.4857	23	.97773	—	361.28	454.89	6.39	21.98	.2217
72	.94996	—	115.40	209.13	6.27	47.81	.4821	22	.97837	—	377.71	471.39	6.32	21.21	.2139
71	.95051	—	117.03	210.73	6.30	47.46	.4784	21	.97902	—	395.70	489.47	6.23	20.43	.2060
100 + 70	.95106	—	118.70	212.37	6.33	47.09	.4747	100 + 20	.97968	—	415.48	509.35	6.13	19.63	.1979
69	.95162	—	120.42	214.05	6.37	46.72	.4710	19	.98036	—	437.35	531.32	6.03	18.82	.1897
68	.95218	—	122.19	215.78	6.41	46.34	.4672	18	.98106	—	461.65	555.73	5.92	17.99	.1814
67	.95274	—	124.01	217.57	6.44	45.96	.4634	17	.98177	—	488.81	583.00	5.81	17.15	.1729
66	.95331	—	125.89	219.42	6.47	45.57	.4595	16	.98252	—	519.35	613.68	5.67	16.29	.1643
100 + 65	.95387	—	127.83	221.31	6.53	45.18	.4555	100 + 15	.98329	—	553.98	648.44	5.54	15.42	.1555
64	.95444	—	129.83	223.28	6.55	44.79	.4515	14	.98409	—	593.55	688.16	5.39	14.53	.1405
63	.95500	—	131.89	225.31	6.58	44.38	.4475	13	.98493	—	639.21	733.97	5.24	13.62	.1374
62	.95557	—	134.02	227.41	6.61	43.98	.4433	12	.98580	—	692.48	787.39	5.09	12.70	.1280
61	.95615	—	136.22	229.58	6.64	43.56	.4391	11	.98672	—	755.42	850.52	4.92	11.75	.1185
100 + 60	.95671	—	138.49	231.81	6.68	43.14	.4349	100 + 10	.98768	—	830.97	926.21	4.76	10.79	.1088
59	.95728	—	140.83	234.12	6.71	42.71	.4306	9	.98870	—	923.30	1018.76	4.54	9.81	.0990
58	.95787	—	143.26	236.52	6.74	42.28	.4262	8	.98976	—	1038.71	1134.36	4.35	8.81	.0889
57	.95845	—	145.78	239.00	6.78	41.84	.4218	7	.99090	—	1187.10	1282.95	4.15	7.79	.0786
56	.95902	—	148.39	241.58	6.81	41.39	.4173	6	.99210	—	1384.96	1481.00	3.96	6.75	.0681
100 + 55	.95959	—	151.08	244.25	6.83	40.94	.4127	100 + 5	.99334	—	1661.94	1758.21	3.73	5.69	.0573
54	.96019	—	153.85	247.01	6.84	40.48	.4082	4	.99467	—	2077.42	2173.93	3.49	4.60	.0464
53	.96076	—	156.74	249.87	6.87	40.02	.4035	3	.99608	—	2769.91	2866.63	3.28	3.49	.0352
52	.96134	—	159.77	252.87	6.90	39.55	.3987	2	.99758	—	4154.78	4251.80	2.98	2.35	.0237
51	.96192	—	162.92	255.99	6.93	39.06	.3938	1	.99916	—	8309.71	8406.88	2.83	1.19	.0120

TABLE I.

HEAT 47°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of Bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83120	100	—	100,00	—	100,00	1,0075	100 + 50	,90292	100	41,52	138,08	3,44	72,42	,7296
1	,83350	—	0,83	100,72	0,11	99,28	1,0004	51	,90382	—	42,35	138,86	3,49	72,01	,7255
2	,83575	—	1,66	101,44	0,22	98,58	,9933	52	,90470	—	43,18	139,65	3,53	71,61	,7214
3	,83795	—	2,49	102,17	0,32	97,88	,9862	53	,90557	—	44,01	140,43	3,58	71,21	,7174
4	,84009	—	3,32	102,90	0,42	97,18	,9792	54	,90642	—	44,84	141,22	3,62	70,81	,7135
100 + 5	,84216	—	4,16	103,63	0,53	96,49	,9722	100 + 55	,90725	—	45,68	142,00	3,68	70,42	,7095
6	,84420	—	4,98	104,37	0,61	95,81	,9654	56	,90808	—	46,51	142,79	3,72	70,03	,7056
7	,84618	—	5,81	105,11	0,70	95,14	,9586	57	,90889	—	47,33	143,58	3,75	69,64	,7018
8	,84811	—	6,64	105,85	0,80	94,47	,9519	58	,90969	—	48,17	144,36	3,81	69,27	,6980
9	,84999	—	7,47	106,59	0,88	93,81	,9453	59	,91047	—	49,00	145,15	3,85	68,89	,6942
100 + 10	,85183	—	8,30	107,34	0,96	93,16	,9387	100 + 60	,91126	—	49,82	145,94	3,88	68,52	,6903
11	,85363	—	9,13	108,09	1,04	92,52	,9322	61	,91202	—	50,66	146,73	3,93	68,15	,6867
12	,85538	—	9,97	108,84	1,13	91,88	,9258	62	,91277	—	51,49	147,51	3,98	67,79	,6830
13	,85709	—	10,80	109,59	1,21	91,25	,9194	63	,91353	—	52,32	148,31	4,01	67,43	,6793
14	,85876	—	11,63	110,34	1,27	90,63	,9131	64	,91426	—	53,15	149,10	4,05	67,07	,6757
100 + 15	,86039	—	12,46	111,09	1,37	90,01	,9069	100 + 65	,91499	—	53,98	149,89	4,09	66,72	,6721
16	,86201	—	13,29	111,85	1,44	89,40	,9008	66	,91571	—	54,81	150,68	4,13	66,37	,6687
17	,86358	—	14,11	112,61	1,50	88,80	,8947	67	,91643	—	55,64	151,47	4,17	66,02	,6652
18	,86513	—	14,94	113,37	1,57	88,21	,8887	68	,91714	—	56,47	152,25	4,22	65,67	,6617
19	,86666	—	15,77	114,13	1,64	87,62	,8828	69	,91783	—	57,30	153,05	4,25	65,34	,6583
100 + 20	,86813	—	16,61	114,89	1,72	87,04	,8769	100 + 70	,91852	—	58,13	153,84	4,29	65,00	,6549
21	,86962	—	17,44	115,65	1,79	86,46	,8712	71	,91919	—	58,96	154,63	4,33	64,67	,6516
22	,87106	—	18,27	116,41	1,86	85,89	,8655	72	,91985	—	59,79	155,43	4,36	64,34	,6483
23	,87247	—	19,10	117,18	1,92	85,33	,8598	73	,92051	—	60,62	156,22	4,40	64,01	,6450
24	,87385	—	19,93	117,95	1,98	84,79	,8542	74	,92115	—	61,45	157,01	4,44	63,69	,6417
100 + 25	,87522	—	20,76	118,71	2,05	84,24	,8487	100 + 75	,92178	—	62,29	157,80	4,49	63,37	,6385
26	,87655	—	21,60	119,48	2,12	83,70	,8432	76	,92242	—	63,12	158,59	4,53	63,05	,6353
27	,87787	—	22,43	120,25	2,18	83,16	,8378	77	,92304	—	63,95	159,39	4,56	62,74	,6321
28	,87915	—	23,26	121,02	2,24	82,63	,8325	78	,92366	—	64,78	160,18	4,60	62,43	,6290
29	,88041	—	24,09	121,79	2,30	82,11	,8273	79	,92425	—	65,61	160,97	4,64	62,12	,6259
100 + 30	,88165	—	24,92	122,56	2,36	81,59	,8221	100 + 80	,92484	—	66,44	161,77	4,67	61,82	,6228
31	,88288	—	25,74	123,33	2,41	81,08	,8169	81	,92544	—	67,27	162,57	4,70	61,51	,6198
32	,88409	—	26,57	124,10	2,47	80,58	,8118	82	,92604	—	68,09	163,36	4,73	61,21	,6168
33	,88528	—	27,40	124,87	2,53	80,08	,8068	83	,92661	—	68,93	164,15	4,78	60,91	,6138
34	,88645	—	28,24	125,64	2,60	79,59	,8018	84	,92718	—	69,76	164,96	4,80	60,62	,6108
100 + 35	,88760	—	29,07	126,42	2,65	79,10	,7969	100 + 85	,92773	—	70,59	165,75	4,84	60,33	,6079
36	,88873	—	29,90	127,19	2,71	78,62	,7921	86	,92831	—	71,42	166,55	4,87	60,04	,6050
37	,88984	—	30,73	127,97	2,76	78,14	,7873	87	,92886	—	72,25	167,34	4,91	59,76	,6021
38	,89093	—	31,56	128,74	2,82	77,67	,7825	88	,92940	—	73,08	168,14	4,94	59,48	,5993
39	,89202	—	32,39	129,52	2,87	77,20	,7778	89	,92994	—	73,91	168,93	4,98	59,20	,5965
100 + 40	,89307	—	33,22	130,30	2,92	76,74	,7732	100 + 90	,93047	—	74,75	169,73	5,02	58,92	,5936
41	,89413	—	34,05	131,07	2,98	76,29	,7687	91	,93098	—	75,58	170,53	5,05	58,64	,5908
42	,89517	—	34,88	131,85	3,03	75,84	,7642	92	,93150	—	76,41	171,32	5,09	58,37	,5881
43	,89619	—	35,71	132,63	3,08	75,40	,7597	93	,93201	—	77,23	172,12	5,11	58,10	,5854
44	,89720	—	36,54	133,40	3,14	74,96	,7553	94	,93251	—	78,06	172,92	5,14	57,83	,5827
100 + 45	,89819	—	37,37	134,18	3,19	74,52	,7509	100 + 95	,93301	—	78,89	173,72	5,17	57,56	,5800
46	,89917	—	38,20	134,96	3,24	74,09	,7466	96	,93349	—	79,71	174,51	5,20	57,30	,5773
47	,90014	—	39,03	135,74	3,29	73,67	,7422	97	,93397	—	80,54	175,30	5,24	57,04	,5747
48	,90108	—	39,86	136,52	3,34	73,25	,7380	98	,93445	—	81,37	176,10	5,27	56,78	,5721
49	,90201	—	40,70	137,30	3,40	72,83	,7338	99	,93492	—	82,21	176,91	5,30	56,53	,5696

TABLE II.

HEAT 47°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93539	100	83.05	177.71	5.34	56.27	.5669	100 + 50	.96219	100	166.10	259.16	6.94	38.58	.3888
99	.93588	—	83.90	178.53	5.37	56.01	.5643	49	.96276	—	169.50	262.53	6.97	38.09	.3838
98	.93636	—	84.76	179.36	5.40	55.75	.5617	48	.96334	—	173.02	266.04	6.98	37.59	.3787
97	.93683	—	85.63	180.20	5.43	55.49	.5592	47	.96391	—	176.70	269.70	7.00	37.08	.3736
96	.93731	—	86.52	181.06	5.46	55.23	.5565	46	.96449	—	180.55	273.53	7.02	36.56	.3684
100 + 95	.93780	—	87.42	181.93	5.49	54.96	.5538	100 + 45	.96507	—	184.56	277.53	7.03	36.03	.3630
94	.93827	—	88.35	182.83	5.52	54.70	.5511	44	.96562	—	188.76	281.71	7.05	35.49	.3577
93	.93874	—	89.30	183.75	5.55	54.42	.5483	43	.96619	—	193.15	286.10	7.05	34.95	.3522
92	.93921	—	90.27	184.70	5.57	54.15	.5455	42	.96675	—	197.74	290.70	7.04	34.40	.3466
91	.93968	—	91.26	185.66	5.60	53.87	.5427	41	.96732	—	202.56	295.52	7.04	33.84	.3409
100 + 90	.94017	—	92.28	186.64	5.64	53.58	.5398	100 + 40	.96788	—	207.63	300.57	7.06	33.27	.3352
89	.94066	—	93.32	187.64	5.68	53.29	.5369	39	.96843	—	212.95	305.89	7.06	32.69	.3294
88	.94116	—	94.38	188.67	5.71	53.00	.5340	38	.96898	—	218.55	311.51	7.04	32.10	.3234
87	.94167	—	95.46	189.73	5.73	52.71	.5310	37	.96953	—	224.47	317.43	7.04	31.50	.3174
86	.94218	—	96.57	190.81	5.76	52.41	.5280	36	.97009	—	230.70	323.68	7.02	30.89	.3112
100 + 85	.94269	—	97.70	191.90	5.80	52.11	.5250	100 + 35	.97064	—	237.29	330.29	7.00	30.28	.3050
84	.94320	—	98.87	193.04	5.83	51.81	.5219	34	.97119	—	244.27	337.30	6.97	29.65	.2987
83	.94372	—	100.06	194.19	5.87	51.50	.5188	33	.97176	—	251.67	344.73	6.94	29.01	.2923
82	.94424	—	101.28	195.38	5.90	51.18	.5157	32	.97231	—	259.54	352.04	6.90	28.36	.2858
81	.94475	—	102.53	196.60	5.93	50.87	.5125	31	.97288	—	267.91	361.04	6.87	27.70	.2791
100 + 80	.94528	—	103.81	197.84	5.97	50.54	.5092	100 + 30	.97344	—	276.84	370.00	6.84	27.03	.2723
79	.94582	—	105.13	199.12	6.01	50.22	.5060	29	.97401	—	286.38	379.61	6.77	26.34	.2654
78	.94635	—	106.47	200.43	6.04	49.89	.5027	28	.97458	—	296.61	389.90	6.71	25.65	.2584
77	.94689	—	107.86	201.78	6.08	49.55	.4993	27	.97516	—	307.59	400.94	6.65	24.94	.2513
76	.94742	—	109.28	203.17	6.11	49.22	.4959	26	.97675	—	319.43	412.85	6.58	24.22	.2440
100 + 75	.94797	—	110.74	204.59	6.15	48.88	.4925	100 + 25	.97634	—	332.21	425.66	6.55	23.49	.2367
74	.94850	—	112.23	206.05	6.18	48.53	.4890	24	.97697	—	346.05	439.56	6.49	22.75	.2292
73	.94904	—	113.76	207.55	6.21	48.18	.4855	23	.97759	—	361.09	454.69	6.40	21.99	.2216
72	.94959	—	115.34	209.09	6.25	47.82	.4819	22	.97823	—	377.51	471.19	6.32	21.22	.2138
71	.95014	—	116.97	210.70	6.27	47.47	.4782	21	.97889	—	395.49	489.25	6.24	20.44	.2059
100 + 70	.95069	—	118.64	212.33	6.31	47.10	.4745	100 + 20	.97956	—	415.26	509.12	6.14	19.64	.1979
69	.95125	—	120.35	214.01	6.34	46.73	.4708	19	.98024	—	437.11	531.08	6.03	18.83	.1897
68	.95181	—	122.12	215.74	6.38	46.35	.4670	18	.98095	—	461.40	555.47	5.93	18.00	.1814
67	.95237	—	123.94	217.53	6.41	45.97	.4632	17	.98167	—	488.55	582.73	5.82	17.16	.1729
66	.95294	—	125.82	219.37	6.45	45.58	.4593	16	.98242	—	519.07	613.39	5.68	16.30	.1643
100 + 65	.95351	—	127.76	221.27	6.49	45.19	.4553	100 + 15	.98320	—	553.68	648.13	5.55	15.43	.1555
64	.95408	—	129.76	223.24	6.52	44.79	.4513	14	.98401	—	593.23	687.82	5.41	14.54	.1465
63	.95464	—	131.82	225.26	6.56	44.39	.4473	13	.98485	—	638.87	733.61	5.26	13.63	.1373
62	.95522	—	133.95	227.36	6.59	43.99	.4431	12	.98573	—	692.11	787.00	5.11	12.70	.1280
61	.95580	—	136.14	229.53	6.61	43.57	.4389	11	.98666	—	755.02	850.09	4.93	11.76	.1185
100 + 60	.95637	—	138.42	231.76	6.66	43.15	.4347	100 + 10	.98762	—	830.53	925.74	4.79	10.80	.1088
59	.95695	—	140.75	234.07	6.68	42.72	.4304	9	.98864	—	922.81	1018.23	4.58	9.82	.0990
58	.95753	—	143.19	236.47	6.72	42.29	.4260	8	.98971	—	1038.15	1133.77	4.38	8.82	.0889
57	.95812	—	145.70	238.94	6.76	41.85	.4216	7	.99085	—	1186.47	1282.28	4.19	7.80	.0786
56	.95870	—	148.31	241.52	6.79	41.40	.4172	6	.99206	—	1384.22	1480.22	4.00	6.76	.0681
100 + 55	.95927	—	151.00	244.19	6.81	40.95	.4126	100 + 5	.99330	—	1661.05	1757.28	3.77	5.69	.0573
54	.95987	—	153.77	246.95	6.82	40.49	.4080	4	.99463	—	2076.31	2172.78	3.53	4.60	.0464
53	.96045	—	156.66	249.81	6.85	40.02	.4033	3	.99604	—	2768.43	2865.10	3.33	3.49	.0352
52	.96102	—	159.68	252.81	6.87	39.55	.3985	2	.99754	—	4152.58	4249.52	3.06	2.35	.0237
51	.96161	—	162.83	255.92	6.91	39.07	.3937	1	.99913	—	8305.28	8402.37	2.91	1.19	.0120



TABLE I.

HEAT 48°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.	Spirit and Water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83073	100	—	100,00	—	100,00	1,0069	100 + 50	,90248	100	41,50	138,07	3,43	72,43	,7293
1	,83303	—	0,83	100,72	0,11	99,28	,9998	51	,90338	—	42,33	138,85	3,48	72,02	,7252
2	,83528	—	1,66	101,44	0,22	98,58	,9927	52	,90427	—	43,16	139,63	3,53	71,62	,7211
3	,83748	—	2,49	102,17	0,32	97,88	,9857	53	,90513	—	43,99	140,42	3,57	71,21	,7171
4	,83962	—	3,32	102,90	0,42	97,19	,9787	54	,90599	—	44,82	141,21	3,61	70,82	,7131
100 + 5	,84169	—	4,16	103,63	0,53	96,50	,9717	100 + 55	,90682	—	45,65	141,98	3,67	70,43	,7091
6	,84373	—	4,98	104,37	0,61	95,81	,9649	56	,90765	—	46,48	142,77	3,71	70,04	,7053
7	,84571	—	5,81	105,11	0,70	95,14	,9581	57	,90846	—	47,31	143,56	3,75	69,65	,7014
8	,84764	—	6,64	105,85	0,79	94,47	,9514	58	,90926	—	48,14	144,35	3,79	69,27	,6976
9	,84952	—	7,47	106,59	0,88	93,81	,9448	59	,91004	—	48,97	145,13	3,84	68,90	,6938
100 + 10	,85136	—	8,30	107,34	0,96	93,16	,9381	100 + 60	,91083	—	49,80	145,92	3,88	68,53	,6900
11	,85316	—	9,13	108,09	1,04	92,52	,9316	61	,91159	—	50,64	146,71	3,93	68,16	,6864
12	,85491	—	9,96	108,84	1,12	91,88	,9253	62	,91235	—	51,46	147,50	3,96	67,79	,6827
13	,85663	—	10,80	109,59	1,21	91,25	,9189	63	,91310	—	52,29	148,29	4,00	67,43	,6790
14	,85830	—	11,62	110,34	1,28	90,63	,9126	64	,91383	—	53,12	149,08	4,04	67,07	,6754
100 + 15	,85994	—	12,45	111,09	1,36	90,01	,9064	100 + 65	,91456	—	53,95	149,87	4,08	66,72	,6719
16	,86155	—	13,28	111,85	1,43	89,40	,9003	66	,91528	—	54,78	150,66	4,12	66,37	,6684
17	,86312	—	14,11	112,61	1,50	88,80	,8943	67	,91600	—	55,61	151,46	4,15	66,02	,6649
18	,86467	—	14,93	113,37	1,56	88,21	,8883	68	,91671	—	56,44	152,24	4,20	65,68	,6614
19	,86620	—	15,76	114,13	1,63	87,62	,8823	69	,91740	—	57,27	153,03	4,24	65,35	,6580
100 + 20	,86767	—	16,60	114,89	1,71	87,04	,8764	100 + 70	,91809	—	58,10	153,82	4,28	65,01	,6540
21	,86916	—	17,43	115,65	1,78	86,47	,8707	71	,91876	—	58,93	154,61	4,32	64,68	,6513
22	,87060	—	18,26	116,41	1,85	85,90	,8650	72	,91942	—	59,76	155,41	4,35	64,35	,6480
23	,87201	—	19,09	117,17	1,92	85,34	,8593	73	,92008	—	60,59	156,20	4,39	64,02	,6447
24	,87339	—	19,92	117,94	1,98	84,79	,8537	74	,92072	—	61,42	156,99	4,43	63,70	,6414
100 + 25	,87476	—	20,75	118,71	2,04	84,24	,8482	100 + 75	,92136	—	62,25	157,78	4,47	63,38	,6382
26	,87609	—	21,58	119,47	2,11	83,70	,8428	76	,92199	—	63,08	158,57	4,51	63,06	,6350
27	,87741	—	22,41	120,24	2,17	83,17	,8374	77	,92261	—	63,91	159,37	4,54	62,75	,6318
28	,87869	—	23,25	121,02	2,23	82,64	,8321	78	,92323	—	64,74	160,17	4,57	62,44	,6287
29	,87996	—	24,07	121,78	2,29	82,11	,8269	79	,92382	—	65,57	160,95	4,62	62,13	,6256
100 + 30	,88120	—	24,90	122,55	2,35	81,60	,8216	100 + 80	,92442	—	66,40	161,75	4,65	61,82	,6225
31	,88243	—	25,73	123,33	2,40	81,09	,8165	81	,92502	—	67,23	162,55	4,68	61,52	,6195
32	,88364	—	26,56	124,10	2,46	80,58	,8114	82	,92561	—	68,05	163,35	4,70	61,22	,6165
33	,88483	—	27,39	124,87	2,52	80,08	,8064	83	,92619	—	68,89	164,14	4,75	60,92	,6135
34	,88600	—	28,22	125,64	2,58	79,59	,8014	84	,92676	—	69,72	164,94	4,78	60,63	,6105
100 + 35	,88716	—	29,05	126,41	2,64	79,11	,7965	100 + 85	,92731	—	70,55	165,73	4,82	60,34	,6070
36	,88828	—	29,88	127,19	2,69	78,63	,7917	86	,92789	—	71,38	166,53	4,85	60,05	,6047
37	,88940	—	30,71	127,96	2,75	78,15	,7869	87	,92844	—	72,21	167,32	4,89	59,77	,6018
38	,89049	—	31,54	128,74	2,80	77,68	,7821	88	,92898	—	73,04	168,12	4,92	59,48	,5990
39	,89157	—	32,37	129,51	2,86	77,21	,7774	89	,92952	—	73,87	168,91	4,96	59,20	,5962
100 + 40	,89262	—	33,21	130,29	2,92	76,75	,7728	100 + 90	,93005	—	74,71	169,71	5,00	58,92	,5933
41	,89368	—	34,04	131,07	2,97	76,30	,7683	91	,93056	—	75,54	170,51	5,03	58,65	,5905
42	,89472	—	34,87	131,84	3,03	75,85	,7638	92	,93108	—	76,37	171,30	5,07	58,37	,5878
43	,89574	—	35,69	132,62	3,07	75,40	,7593	93	,93159	—	77,19	172,10	5,09	58,10	,5851
44	,89675	—	36,52	133,39	3,13	74,96	,7549	94	,93210	—	78,02	172,90	5,12	57,84	,5824
100 + 45	,89774	—	37,35	134,17	3,18	74,53	,7505	100 + 95	,93260	—	78,85	173,70	5,15	57,57	,5797
46	,89872	—	38,18	134,95	3,23	74,10	,7462	96	,93308	—	79,67	174,48	5,19	57,31	,5771
47	,89969	—	39,01	135,73	3,28	73,67	,7418	97	,93357	—	80,50	175,28	5,22	57,05	,5745
48	,90064	—	39,84	136,51	3,33	73,26	,7376	98	,93404	—	81,33	176,08	5,25	56,79	,5719
49	,90157	—	40,67	137,29	3,38	72,84	,7335	99	,93451	—	82,16	176,88	5,28	56,53	,5693

TABLE II.

HEAT 48°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93499	100	83.01	177.69	5.32	56.27	.5667	100 + 50	.96188	100	166.01	259.10	6.91	38.59	.3886
99	.93548	—	83.85	178.50	5.35	56.02	.5641	49	.96246	—	169.41	262.46	6.95	38.10	.3836
98	.93595	—	84.71	179.33	5.38	55.76	.5614	48	.96304	—	172.93	265.97	6.96	37.60	.3786
97	.93643	—	85.58	180.17	5.41	55.50	.5589	47	.96362	—	176.60	269.63	6.97	37.09	.3735
96	.93691	—	86.47	181.03	5.44	55.24	.5563	46	.96420	—	180.45	273.46	6.99	36.57	.3683
100 + 95	.93740	—	87.37	181.90	5.47	54.97	.5536	100 + 45	.96479	—	184.46	277.46	7.00	36.04	.3629
94	.93786	—	88.30	182.80	5.50	54.70	.5509	44	.96534	—	188.66	281.63	7.03	35.50	.3575
93	.93834	—	89.25	183.72	5.53	54.43	.5481	43	.96591	—	193.04	286.02	7.02	34.96	.3521
92	.93881	—	90.22	184.67	5.55	54.15	.5453	42	.96648	—	197.63	290.61	7.02	34.41	.3465
91	.93928	—	91.21	185.63	5.58	53.87	.5425	41	.96705	—	202.45	295.43	7.02	33.85	.3408
100 + 90	.93977	—	92.23	186.62	5.61	53.59	.5396	100 + 40	.96762	—	207.52	300.48	7.04	33.28	.3351
89	.94026	—	93.27	187.61	5.66	53.30	.5367	39	.96817	—	212.84	305.80	7.04	32.70	.3293
88	.94076	—	94.33	188.65	5.68	53.01	.5338	38	.96873	—	218.43	311.41	7.02	32.11	.3233
87	.94127	—	95.41	189.70	5.71	52.71	.5308	37	.96929	—	224.35	317.32	7.03	31.51	.3173
86	.94178	—	96.52	190.78	5.74	52.42	.5278	36	.96985	—	230.57	323.57	7.00	30.90	.3112
100 + 85	.94229	—	97.65	191.87	5.78	52.12	.5248	100 + 35	.97041	—	237.16	330.18	6.98	30.29	.3050
84	.94280	—	98.81	193.01	5.82	51.82	.5217	34	.97097	—	244.14	337.18	6.96	29.66	.2987
83	.94333	—	100.01	194.16	5.85	51.51	.5186	33	.97154	—	251.53	344.61	6.92	29.02	.2922
82	.94385	—	101.22	195.34	5.88	51.19	.5155	32	.97210	—	259.40	352.51	6.89	28.37	.2857
81	.94437	—	102.47	196.56	5.91	50.87	.5123	31	.97267	—	267.76	360.91	6.85	27.71	.2790
100 + 80	.94490	—	103.75	197.81	5.94	50.55	.5090	100 + 30	.97324	—	276.69	369.87	6.82	27.04	.2722
79	.94544	—	105.07	199.09	5.98	50.23	.5058	29	.97382	—	286.23	379.47	6.76	26.35	.2653
78	.94597	—	106.42	200.40	6.02	49.90	.5025	28	.97440	—	296.45	389.74	6.71	25.66	.2583
77	.94651	—	107.80	201.74	6.06	49.56	.4991	27	.97499	—	307.43	400.78	6.65	24.95	.2512
76	.94705	—	109.22	203.14	6.08	49.22	.4957	26	.97559	—	319.26	412.68	6.58	24.23	.2440
100 + 75	.94759	—	110.68	204.55	6.13	48.88	.4923	100 + 25	.97619	—	332.03	425.48	6.55	23.50	.2367
74	.94812	—	112.17	206.02	6.15	48.53	.4888	24	.97682	—	345.80	439.38	6.48	22.76	.2292
73	.94867	—	113.70	207.51	6.19	48.18	.4853	23	.97745	—	360.90	454.49	6.41	22.00	.2216
72	.94922	—	115.28	209.06	6.22	47.83	.4817	22	.97810	—	377.31	470.98	6.33	21.23	.2138
71	.94977	—	116.91	210.66	6.25	47.47	.4780	21	.97876	—	395.28	489.03	6.25	20.45	.2059
100 + 70	.95032	—	118.58	212.29	6.29	47.11	.4743	100 + 20	.97944	—	415.04	508.89	6.15	19.65	.1979
69	.95088	—	120.29	213.97	6.32	46.73	.4706	19	.98013	—	436.88	530.84	6.04	18.84	.1897
68	.95144	—	122.06	215.70	6.36	46.36	.4668	18	.98084	—	461.15	555.21	5.94	18.01	.1813
67	.95201	—	123.88	217.49	6.39	45.98	.4630	17	.98157	—	488.29	582.46	5.83	17.17	.1728
66	.95258	—	125.76	219.33	6.43	45.59	.4591	16	.98232	—	518.79	613.10	5.69	16.31	.1642
100 + 65	.95315	—	127.70	221.23	6.47	45.20	.4551	100 + 15	.98311	—	553.38	647.82	5.56	15.44	.1554
64	.95372	—	129.69	223.19	6.50	44.80	.4511	14	.98393	—	592.91	687.49	5.42	14.55	.1464
63	.95429	—	131.75	225.22	6.53	44.40	.4471	13	.98477	—	638.53	733.25	5.28	13.64	.1373
62	.95487	—	133.88	227.32	6.56	43.99	.4429	12	.98566	—	691.74	786.61	5.13	12.71	.1280
61	.95545	—	136.07	229.48	6.59	43.58	.4388	11	.98660	—	754.62	849.66	4.96	11.77	.1185
100 + 60	.95602	—	138.35	231.71	6.64	43.16	.4346	100 + 10	.98756	—	830.08	925.27	4.81	10.80	.1088
59	.95661	—	140.68	234.02	6.66	42.73	.4303	9	.98858	—	922.32	1017.70	4.62	9.82	.0990
58	.95720	—	143.11	236.41	6.70	42.30	.4259	8	.98966	—	1037.60	1133.18	4.42	8.82	.0889
57	.95779	—	145.62	238.89	6.73	41.86	.4215	7	.99080	—	1185.84	1281.61	4.23	7.80	.0786
56	.95837	—	148.23	241.47	6.76	41.41	.4170	6	.99201	—	1383.48	1479.44	4.04	6.76	.0681
100 + 55	.95894	—	150.92	244.13	6.79	40.96	.4124	100 + 5	.99326	—	1600.17	1750.36	3.81	5.69	.0573
54	.95955	—	153.69	246.89	6.80	40.50	.4079	4	.99459	—	2075.71	2171.63	3.58	4.61	.0464
53	.96013	—	156.58	249.75	6.83	40.03	.4032	3	.99600	—	2766.95	2863.58	3.37	3.49	.0352
52	.96071	—	159.59	252.74	6.85	39.56	.3984	2	.99750	—	4150.36	4247.26	3.12	2.36	.0237
51	.96130	—	162.74	255.86	6.88	39.08	.3936	1	.99909	—	8300.85	8397.88	2.97	1.19	.0120



TABLE I.

HEAT 49°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,83025	100	—	100,00	—	100,00	1,0064	100 + 50	,90204	100	41,48	138,06	3,42	72,43	,7289
1	,83256	—	0,83	100,72	0,11	99,28	,9992	51	,90294	—	42,31	138,84	3,47	72,02	,7248
2	,83481	—	1,66	101,44	0,22	98,58	,9921	52	,90383	—	43,14	139,62	3,52	71,62	,7207
3	,83701	—	2,49	102,17	0,32	97,88	,9851	53	,90470	—	43,97	140,41	3,56	71,22	,7167
4	,83915	—	3,32	102,90	0,42	97,19	,9781	54	,90556	—	44,80	141,19	3,61	70,82	,7127
100 + 5	,84122	—	4,16	103,63	0,53	96,50	,9711	100 + 55	,90639	—	45,63	141,97	3,66	70,43	,7088
6	,84326	—	4,98	104,37	0,61	95,81	,9643	56	,90722	—	46,46	142,76	3,70	70,04	,7050
7	,84524	—	5,81	105,11	0,70	95,14	,9576	57	,90803	—	47,28	143,55	3,73	69,66	,7011
8	,84717	—	6,64	105,84	0,80	94,48	,9509	58	,90883	—	48,12	144,34	3,78	69,28	,6973
9	,84905	—	7,47	106,59	0,88	93,82	,9443	59	,90962	—	48,94	145,12	3,82	68,90	,6935
100 + 10	,85089	—	8,30	107,33	0,97	93,17	,9376	100 + 60	,91040	—	49,77	145,91	3,86	68,53	,6897
11	,85269	—	9,13	108,08	1,05	92,53	,9311	61	,91116	—	50,61	146,70	3,91	68,17	,6861
12	,85444	—	9,96	108,83	1,13	91,89	,9247	62	,91192	—	51,43	147,49	3,94	67,80	,6824
13	,85616	—	10,79	109,58	1,21	91,26	,9184	63	,91267	—	52,26	148,28	3,98	67,44	,6787
14	,85784	—	11,62	110,34	1,28	90,63	,9121	64	,91340	—	53,09	149,07	4,02	67,08	,6751
100 + 15	,85948	—	12,45	111,09	1,36	90,02	,9059	100 + 65	,91413	—	53,92	149,86	4,06	66,73	,6715
16	,86109	—	13,28	111,85	1,43	89,41	,8998	66	,91485	—	54,75	150,65	4,10	66,38	,6681
17	,86266	—	14,10	112,60	1,50	88,80	,8938	67	,91557	—	55,58	151,44	4,14	66,03	,6646
18	,86421	—	14,93	113,36	1,57	88,21	,8878	68	,91628	—	56,41	152,23	4,18	65,69	,6611
19	,86574	—	15,75	114,12	1,63	87,62	,8819	69	,91697	—	57,24	153,01	4,23	65,35	,6577
100 + 20	,86721	—	16,59	114,89	1,70	87,04	,8760	100 + 70	,91766	—	58,07	153,81	4,26	65,02	,6543
21	,86870	—	17,42	115,64	1,78	86,47	,8702	71	,91833	—	58,90	154,60	4,30	64,69	,6510
22	,87014	—	18,25	116,41	1,84	85,90	,8645	72	,91899	—	59,73	155,39	4,34	64,36	,6477
23	,87155	—	19,08	117,17	1,91	85,34	,8589	73	,91965	—	60,56	156,19	4,37	64,03	,6444
24	,87293	—	19,91	117,94	1,97	84,79	,8533	74	,92029	—	61,39	156,97	4,42	63,70	,6411
100 + 25	,87430	—	20,74	118,70	2,04	84,25	,8478	100 + 75	,92094	—	62,22	157,77	4,45	63,38	,6379
26	,87564	—	21,57	119,47	2,10	83,71	,8423	76	,92156	—	63,05	158,55	4,50	63,06	,6347
27	,87695	—	22,40	120,24	2,16	83,17	,8369	77	,92218	—	63,88	159,35	4,53	62,75	,6315
28	,87824	—	23,24	121,01	2,23	82,64	,8317	78	,92280	—	64,71	160,15	4,56	62,44	,6284
29	,87951	—	24,06	121,78	2,28	82,12	,8265	79	,92340	—	65,54	160,93	4,61	62,14	,6253
100 + 30	,88075	—	24,89	122,55	2,34	81,60	,8212	100 + 80	,92400	—	66,37	161,73	4,64	61,83	,6222
31	,88198	—	25,71	123,32	2,39	81,09	,8161	81	,92459	—	67,19	162,53	4,66	61,53	,6192
32	,88319	—	26,54	124,09	2,45	80,59	,8110	82	,92518	—	68,02	163,33	4,69	61,23	,6162
33	,88438	—	27,37	124,86	2,51	80,09	,8060	83	,92577	—	68,85	164,12	4,73	60,93	,6132
34	,88555	—	28,21	125,63	2,58	79,60	,8010	84	,92633	—	69,68	164,92	4,76	60,63	,6102
100 + 35	,88671	—	29,03	126,40	2,63	79,11	,7961	100 + 85	,92689	—	70,51	165,71	4,80	60,34	,6073
36	,88784	—	29,87	127,18	2,69	78,63	,7913	86	,92746	—	71,34	166,51	4,83	60,05	,6044
37	,88895	—	30,70	127,95	2,75	78,15	,7865	87	,92801	—	72,17	167,30	4,87	59,77	,6015
38	,89004	—	31,53	128,73	2,80	77,68	,7817	88	,92855	—	73,00	168,10	4,90	59,49	,5987
39	,89113	—	32,36	129,50	2,86	77,21	,7770	89	,92909	—	73,83	168,89	4,94	59,21	,5959
100 + 40	,89218	—	33,19	130,28	2,91	76,75	,7724	100 + 90	,92962	—	74,67	169,69	4,98	58,93	,5930
41	,89324	—	34,02	131,06	2,96	76,30	,7679	91	,93014	—	75,50	170,49	5,01	58,65	,5902
42	,89427	—	34,85	131,83	3,02	75,85	,7634	92	,93066	—	76,33	171,28	5,05	58,38	,5875
43	,89530	—	35,67	132,61	3,06	75,41	,7589	93	,93118	—	77,15	172,08	5,07	58,11	,5848
44	,89630	—	36,50	133,39	3,11	74,97	,7545	94	,93169	—	77,98	172,87	5,11	57,84	,5821
100 + 45	,89729	—	37,33	134,17	3,16	74,53	,7501	100 + 95	,93219	—	78,81	173,68	5,13	57,58	,5794
46	,89827	—	38,16	134,94	3,22	74,10	,7458	96	,93267	—	79,63	174,46	5,17	57,32	,5768
47	,89924	—	38,99	135,72	3,27	73,68	,7415	97	,93316	—	80,46	175,26	5,20	57,06	,5742
48	,90019	—	39,82	136,50	3,32	73,26	,7373	98	,93364	—	81,29	176,05	5,24	56,80	,5716
49	,90113	—	40,65	137,28	3,37	72,84	,7331	99	,93411	—	82,12	176,86	5,26	56,54	,5690

TABLE II.

HEAT 49°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,93459	100	82,96	177,67	5,29	56,28	,5664	100 + 50	,96157	100	165,92	259,03	6,89	38,60	,3885
99	,93507	—	83,81	178,48	5,33	56,02	,5638	49	,96210	—	169,32	262,39	6,93	38,11	,3835
98	,93555	—	84,67	179,31	5,36	55,76	,5612	48	,96274	—	172,84	265,90	6,94	37,61	,3785
97	,93602	—	85,54	180,15	5,39	55,50	,5586	47	,96333	—	176,51	269,56	6,95	37,10	,3734
96	,93651	—	86,44	181,01	5,43	55,24	,5560	46	,96391	—	180,35	273,38	6,97	36,58	,3681
100 + 95	,93699	—	87,32	181,88	5,44	54,98	,5533	100 + 45	,96451	—	184,36	277,38	6,98	36,05	,3628
94	,93746	—	88,25	182,78	5,47	54,71	,5506	44	,96506	—	188,56	281,55	7,01	35,51	,3574
93	,93794	—	89,20	183,70	5,50	54,44	,5478	43	,96564	—	192,94	285,94	7,00	34,97	,3520
92	,93841	—	90,17	184,65	5,52	54,16	,5450	42	,96621	—	197,53	290,53	7,00	34,42	,3464
91	,93888	—	91,16	185,61	5,55	53,88	,5422	41	,96678	—	202,34	295,34	7,00	33,86	,3407
100 + 90	,93937	—	92,18	186,59	5,59	53,59	,5393	100 + 40	,96736	—	207,41	300,39	7,02	33,29	,3350
89	,93986	—	93,22	187,59	5,63	53,30	,5365	39	,96791	—	212,73	305,71	7,02	32,71	,3292
88	,94036	—	94,28	188,62	5,66	53,01	,5336	38	,96848	—	218,32	311,32	7,00	32,12	,3233
87	,94087	—	95,36	189,67	5,69	52,72	,5306	37	,96905	—	224,23	317,22	7,01	31,52	,3172
86	,94138	—	96,47	190,75	5,72	52,42	,5276	36	,96962	—	230,45	323,46	6,99	30,91	,3111
100 + 85	,94189	—	97,60	191,85	5,75	52,12	,5245	100 + 35	,97018	—	237,03	330,06	6,97	30,30	,3049
84	,94241	—	98,76	192,98	5,78	51,82	,5215	34	,97075	—	244,01	337,06	6,95	29,67	,2986
83	,94294	—	99,95	194,13	5,82	51,51	,5184	33	,97132	—	251,40	344,48	6,92	29,03	,2922
82	,94346	—	101,17	195,31	5,86	51,20	,5153	32	,97189	—	259,26	352,38	6,88	28,38	,2857
81	,94399	—	102,42	196,53	5,89	50,88	,5121	31	,97246	—	267,62	360,77	6,85	27,72	,2790
100 + 80	,94452	—	103,70	197,78	5,92	50,56	,5088	100 + 30	,97304	—	276,54	369,73	6,81	27,05	,2722
79	,94506	—	105,02	199,05	5,97	50,24	,5056	29	,97363	—	286,08	379,32	6,76	26,36	,2653
78	,94559	—	106,36	200,36	6,00	49,91	,5023	28	,97422	—	296,29	389,59	6,70	25,67	,2583
77	,94613	—	107,74	201,71	6,03	49,57	,4989	27	,97482	—	307,27	400,62	6,65	24,96	,2512
76	,94667	—	109,16	203,10	6,06	49,23	,4955	26	,97643	—	319,09	412,51	6,58	24,24	,2439
100 + 75	,94721	—	110,62	204,52	6,10	48,89	,4921	100 + 25	,97604	—	331,85	425,31	6,54	23,51	,2366
74	,94775	—	112,11	205,98	6,13	48,54	,4886	24	,97667	—	345,68	439,20	6,48	22,77	,2292
73	,94830	—	113,64	207,48	6,16	48,19	,4851	23	,97731	—	360,71	454,30	6,41	22,01	,2215
72	,94885	—	115,22	209,02	6,20	47,84	,4815	22	,97797	—	377,11	470,78	6,33	21,24	,2137
71	,94940	—	116,85	210,62	6,23	47,48	,4778	21	,97864	—	395,07	488,82	6,25	20,46	,2058
100 + 70	,94995	—	118,52	212,25	6,27	47,11	,4741	100 + 20	,97932	—	414,82	508,66	6,16	19,66	,1978
69	,95051	—	120,23	213,93	6,30	46,74	,4704	19	,98002	—	436,65	530,60	6,05	18,85	,1896
68	,95108	—	122,00	215,66	6,34	46,37	,4666	18	,98073	—	460,91	554,96	5,95	18,02	,1813
67	,95165	—	123,82	217,45	6,37	45,99	,4628	17	,98147	—	488,03	582,19	5,84	17,18	,1728
66	,95222	—	125,70	219,29	6,41	45,60	,4589	16	,98223	—	518,52	612,81	5,71	16,32	,1642
100 + 65	,95279	—	127,63	221,19	6,44	45,21	,4550	100 + 15	,98302	—	553,09	647,51	5,58	15,44	,1554
64	,95336	—	129,62	223,15	6,47	44,81	,4510	14	,98385	—	592,60	687,16	5,44	14,55	,1464
63	,95394	—	131,68	225,17	6,51	44,41	,4469	13	,98470	—	638,19	732,89	5,30	13,64	,1373
62	,95452	—	133,81	227,26	6,55	44,00	,4428	12	,98559	—	691,37	786,22	5,15	12,72	,1280
61	,95510	—	136,00	229,43	6,57	43,59	,4386	11	,98654	—	754,22	849,23	4,99	11,78	,1185
100 + 60	,95568	—	138,27	231,66	6,61	43,17	,4344	100 + 10	,98750	—	829,64	924,80	4,84	10,81	,1088
59	,95627	—	140,60	233,97	6,63	42,74	,4301	9	,98853	—	921,83	1017,18	4,65	9,83	,0989
58	,95687	—	143,04	236,36	6,68	42,31	,4258	8	,98961	—	1037,05	1132,60	4,45	8,83	,0888
57	,95746	—	145,54	238,83	6,71	41,87	,4214	7	,99075	—	1185,21	1280,94	4,27	7,81	,0786
56	,95804	—	148,15	241,41	6,74	41,42	,4169	6	,99196	—	1382,74	1478,67	4,07	6,76	,0681
100 + 55	,95862	—	150,84	244,07	6,77	40,97	,4123	100 + 5	,99321	—	1659,29	1755,44	3,85	5,70	,0573
54	,95923	—	153,61	246,83	6,78	40,51	,4078	4	,99454	—	2074,11	2170,49	3,62	4,61	,0464
53	,95981	—	156,50	249,69	6,81	40,04	,4031	3	,99596	—	2765,48	2862,07	3,41	3,49	,0352
52	,96040	—	159,51	252,68	6,83	39,57	,3983	2	,99746	—	4148,20	4245,02	3,18	2,36	,0237
51	,96099	—	162,65	255,80	6,85	39,09	,3935	1	,99905	—	8296,45	8393,42	3,03	1,19	,0120

TABLE I.

HEAT 50°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82977	100	—	100,00	—	100,00	1,0058	100 + 50	,90160	100	41,46	138,05	3,41	72,44	,7286
1	,83208	—	0,83	100,72	0,11	99,29	,9986	51	,90250	—	42,29	138,83	3,46	72,03	,7245
2	,83434	—	1,66	101,44	0,22	98,58	,9915	52	,90339	—	43,12	139,61	3,51	71,63	,7204
3	,83654	—	2,49	102,16	0,33	97,88	,9845	53	,90426	—	43,95	140,40	3,55	71,23	,7164
4	,83868	—	3,32	102,89	0,43	97,19	,9776	54	,90512	—	44,78	141,18	3,60	70,83	,7124
100 + 5	,84076	—	4,15	103,63	0,52	96,50	,9706	100 + 55	,90596	—	45,61	141,96	3,65	70,44	,7085
6	,84279	—	4,97	104,36	0,61	95,82	,9637	56	,90679	—	46,43	142,75	3,68	70,05	,7046
7	,84477	—	5,80	105,10	0,70	95,15	,9570	57	,90760	—	47,26	143,54	3,72	69,67	,7007
8	,84670	—	6,63	105,84	0,79	94,48	,9503	58	,90840	—	48,09	144,33	3,76	69,29	,6969
9	,84858	—	7,46	106,58	0,88	93,82	,9437	59	,90919	—	48,92	145,11	3,81	68,91	,6931
100 + 10	,85042	—	8,29	107,33	0,96	93,17	,9371	100 + 60	,90997	—	49,75	145,90	3,85	68,54	,6894
11	,85222	—	9,12	108,08	1,04	92,53	,9306	61	,91073	—	50,58	146,69	3,89	68,17	,6857
12	,85397	—	9,95	108,83	1,12	91,89	,9242	62	,91149	—	51,41	147,48	3,93	67,81	,6820
13	,85569	—	10,78	109,58	1,20	91,26	,9179	63	,91224	—	52,24	148,26	3,98	67,45	,6784
14	,85738	—	11,61	110,33	1,28	90,64	,9116	64	,91297	—	53,07	149,06	4,01	67,09	,6748
100 + 15	,85902	—	12,44	111,08	1,36	90,02	,9054	100 + 65	,91370	—	53,90	149,85	4,05	66,74	,6712
16	,86063	—	13,27	111,84	1,43	89,41	,8993	66	,91442	—	54,73	150,64	4,09	66,39	,6677
17	,86220	—	14,09	112,60	1,49	88,81	,8933	67	,91514	—	55,56	151,42	4,14	66,04	,6642
18	,86375	—	14,92	113,36	1,56	88,22	,8873	68	,91585	—	56,38	152,21	4,17	65,70	,6608
19	,86527	—	15,75	114,12	1,63	87,63	,8814	69	,91654	—	57,21	153,00	4,21	65,36	,6574
100 + 20	,86676	—	16,58	114,88	1,70	87,05	,8755	100 + 70	,91723	—	58,04	153,79	4,25	65,02	,6540
21	,86823	—	17,41	115,64	1,77	86,48	,8697	71	,91790	—	58,87	154,58	4,29	64,69	,6507
22	,86967	—	18,24	116,40	1,84	85,91	,8640	72	,91856	—	59,70	155,37	4,33	64,36	,6474
23	,87108	—	19,07	117,16	1,91	85,35	,8584	73	,91922	—	60,53	156,17	4,36	64,03	,6441
24	,87247	—	19,90	117,93	1,97	84,80	,8529	74	,91986	—	61,36	156,96	4,40	63,71	,6408
100 + 25	,87384	—	20,73	118,70	2,03	84,25	,8474	100 + 75	,92051	—	62,19	157,75	4,44	63,39	,6376
26	,87518	—	21,56	119,46	2,10	83,71	,8419	76	,92113	—	63,02	158,54	4,48	63,07	,6344
27	,87649	—	22,39	120,23	2,16	83,18	,8365	77	,92175	—	63,85	159,33	4,52	62,76	,6312
28	,87778	—	23,22	121,00	2,22	82,65	,8312	78	,92237	—	64,68	160,13	4,55	62,45	,6281
29	,87905	—	24,05	121,77	2,28	82,12	,8260	79	,92298	—	65,51	160,92	4,59	62,14	,6250
100 + 30	,88030	—	24,88	122,54	2,34	81,61	,8208	100 + 80	,92358	—	66,34	161,72	4,62	61,84	,6219
31	,88153	—	25,70	123,31	2,39	81,10	,8157	81	,92417	—	67,16	162,51	4,65	61,53	,6189
32	,88274	—	26,53	124,08	2,45	80,59	,8106	82	,92476	—	67,99	163,31	4,68	61,23	,6159
33	,88393	—	27,36	124,85	2,51	80,09	,8056	83	,92534	—	68,82	164,10	4,72	60,94	,6129
34	,88510	—	28,19	125,62	2,57	79,60	,8006	84	,92591	—	69,65	164,90	4,75	60,64	,6099
100 + 35	,88626	—	29,02	126,40	2,62	79,12	,7957	100 + 85	,92647	—	70,48	165,69	4,79	60,35	,6070
36	,88739	—	29,85	127,17	2,68	78,64	,7909	86	,92703	—	71,31	166,49	4,82	60,06	,6041
37	,88850	—	30,68	127,94	2,74	78,16	,7861	87	,92758	—	72,14	167,28	4,86	59,78	,6012
38	,88960	—	31,51	128,72	2,79	77,69	,7814	88	,92812	—	72,97	168,08	4,89	59,50	,5984
39	,89068	—	32,34	129,49	2,85	77,22	,7767	89	,92866	—	73,80	168,87	4,93	59,22	,5956
100 + 40	,89174	—	33,17	130,27	2,90	76,76	,7721	100 + 90	,92919	—	74,63	169,67	4,96	58,94	,5928
41	,89279	—	34,00	131,05	2,95	76,31	,7675	91	,92972	—	75,46	170,47	4,99	58,66	,5900
42	,89382	—	34,83	131,82	3,01	75,86	,7630	92	,93024	—	76,29	171,26	5,03	58,39	,5872
43	,89484	—	35,65	132,60	3,05	75,41	,7585	93	,93076	—	77,11	172,06	5,05	58,12	,5845
44	,89585	—	36,48	133,38	3,10	74,97	,7541	94	,93127	—	77,94	172,85	5,09	57,85	,5818
100 + 45	,89684	—	37,31	134,16	3,15	74,54	,7497	100 + 95	,93177	—	78,77	173,65	5,12	57,59	,5792
46	,89782	—	38,14	134,93	3,21	74,11	,7454	96	,93226	—	79,59	174,44	5,15	57,33	,5766
47	,89879	—	38,97	135,71	3,26	73,69	,7411	97	,93275	—	80,42	175,23	5,19	57,07	,5740
48	,89974	—	39,80	136,49	3,31	73,27	,7369	98	,93323	—	81,25	176,03	5,22	56,81	,5714
49	,90068	—	40,63	137,27	3,36	72,85	,7327	99	,93371	—	82,08	176,83	5,25	56,55	,5688

TABLE II.

HEAT 50°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,93419	100	82,92	177,64	5,28	56,29	,5662	100 + 50	,96126	100	165,84	258,96	6,88	38,61	,3884
99	,93467	—	83,76	178,46	5,30	56,03	,5636	49	,96185	—	169,23	262,32	6,91	38,12	,3834
98	,93515	—	84,62	179,29	5,33	55,77	,5610	48	,96244	—	172,75	265,83	6,92	37,62	,3783
97	,93562	—	85,50	180,13	5,37	55,51	,5584	47	,96303	—	176,42	269,49	6,93	37,11	,3732
96	,93610	—	86,38	180,98	5,40	55,25	,5558	46	,96361	—	180,26	273,31	6,95	36,59	,3680
100 + 95	,93658	—	87,28	181,85	5,43	54,99	,5531	100 + 45	,96420	—	184,27	277,30	6,97	36,06	,3627
94	,93705	—	88,21	182,75	5,46	54,72	,5504	44	,96478	—	188,46	281,48	6,98	35,52	,3573
93	,93753	—	89,16	183,67	5,49	54,44	,5476	43	,96536	—	192,84	285,86	6,98	34,98	,3518
92	,93801	—	90,13	184,62	5,51	54,17	,5448	42	,96593	—	197,43	290,45	6,98	34,43	,3463
91	,93848	—	91,12	185,58	5,54	53,89	,5420	41	,96651	—	202,24	295,26	6,98	33,87	,3406
100 + 90	,93897	—	92,13	186,56	5,57	53,60	,5391	100 + 40	,96708	—	207,30	300,31	6,99	33,30	,3349
89	,93946	—	93,17	187,56	5,61	53,31	,5362	39	,96765	—	212,62	305,62	7,00	32,72	,3291
88	,93996	—	94,23	188,59	5,64	53,02	,5333	38	,96823	—	218,21	311,22	6,99	32,13	,3232
87	,94047	—	95,31	189,64	5,67	52,73	,5303	37	,96880	—	224,11	317,12	6,99	31,53	,3171
86	,94098	—	96,42	190,72	5,70	52,43	,5273	36	,96938	—	230,33	323,35	6,98	30,92	,3110
100 + 85	,94149	—	97,55	191,82	5,73	52,13	,5243	100 + 35	,96995	—	236,91	329,95	6,96	30,31	,3048
84	,94201	—	98,71	192,95	5,76	51,83	,5213	34	,97052	—	243,88	336,94	6,94	29,68	,2985
83	,94254	—	99,90	194,10	5,80	51,52	,5182	33	,97110	—	251,27	344,36	6,91	29,04	,2921
82	,94307	—	101,12	195,28	5,84	51,21	,5150	32	,97167	—	259,13	352,25	6,88	28,39	,2856
81	,94360	—	102,37	196,50	5,87	50,89	,5118	31	,97225	—	267,48	360,64	6,84	27,73	,2789
100 + 80	,94414	—	103,65	197,74	5,91	50,57	,5086	100 + 30	,97284	—	276,40	369,60	6,80	27,06	,2721
79	,94467	—	104,96	199,02	5,94	50,25	,5054	29	,97343	—	285,93	379,18	6,75	26,37	,2652
78	,94521	—	106,31	200,33	5,98	49,92	,5021	28	,97403	—	296,14	389,44	6,70	25,68	,2582
77	,94575	—	107,69	201,68	6,01	49,58	,4988	27	,97464	—	307,11	400,46	6,65	24,97	,2511
76	,94629	—	109,11	203,06	6,05	49,24	,4954	26	,97526	—	318,92	412,34	6,58	24,25	,2439
100 + 75	,94683	—	110,56	204,48	6,08	48,90	,4919	100 + 25	,97589	—	331,68	425,14	6,54	23,52	,2366
74	,94737	—	112,05	205,94	6,11	48,55	,4884	24	,97652	—	345,50	439,02	6,48	22,78	,2291
73	,94792	—	113,58	207,44	6,14	48,20	,4849	23	,97717	—	360,52	454,11	6,41	22,02	,2215
72	,94847	—	115,16	208,99	6,17	47,85	,4813	22	,97783	—	376,91	470,58	6,33	21,25	,2137
71	,94902	—	116,79	210,58	6,21	47,49	,4776	21	,97851	—	394,86	488,61	6,25	20,46	,2058
100 + 70	,94958	—	118,46	212,21	6,25	47,12	,4739	100 + 20	,97920	—	414,60	508,44	6,16	19,67	,1978
69	,95014	—	120,17	213,89	6,28	46,75	,4702	19	,97990	—	436,42	530,36	6,06	18,86	,1896
68	,95071	—	121,94	215,62	6,32	46,38	,4664	18	,98062	—	460,67	554,71	5,96	18,03	,1813
67	,95128	—	123,76	217,41	6,35	46,00	,4626	17	,98136	—	487,77	581,92	5,85	17,18	,1728
66	,95185	—	125,64	219,25	6,39	45,61	,4587	16	,98213	—	518,25	612,53	5,72	16,32	,1642
100 + 65	,95243	—	127,57	221,15	6,42	45,22	,4548	100 + 15	,98293	—	552,80	647,20	5,60	15,45	,1554
64	,95300	—	129,56	223,11	6,45	44,82	,4508	14	,98376	—	592,29	686,83	5,46	14,56	,1464
63	,95358	—	131,61	225,13	6,48	44,42	,4467	13	,98462	—	637,85	732,53	5,32	13,65	,1373
62	,95416	—	133,74	227,22	6,52	44,01	,4426	12	,98552	—	691,00	785,83	5,17	12,72	,1280
61	,95475	—	135,93	229,38	6,55	43,60	,4384	11	,98647	—	753,82	848,80	5,02	11,78	,1185
100 + 60	,95534	—	138,20	231,61	6,59	43,18	,4342	100 + 10	,98745	—	829,20	924,33	4,87	10,82	,1088
59	,95593	—	140,53	233,92	6,61	42,75	,4299	9	,98847	—	921,34	1016,66	4,68	9,84	,0989
58	,95653	—	142,96	236,30	6,66	42,32	,4256	8	,98955	—	1036,50	1132,02	4,48	8,83	,0888
57	,95712	—	145,47	238,78	6,69	41,88	,4212	7	,99070	—	1184,58	1280,28	4,30	7,81	,0786
56	,95771	—	148,07	241,35	6,72	41,43	,4167	6	,99190	—	1382,00	1477,90	4,10	6,77	,0681
100 + 55	,95831	—	150,76	244,01	6,75	40,98	,4122	100 + 5	,99316	—	1658,41	1754,52	3,89	5,70	,0573
54	,95890	—	153,53	246,77	6,76	40,52	,4076	4	,99449	—	2073,01	2169,35	3,66	4,61	,0464
53	,95949	—	156,42	249,63	6,79	40,05	,4029	3	,99591	—	2764,02	2860,57	3,45	3,50	,0352
52	,96008	—	159,43	252,62	6,81	39,58	,3981	2	,99742	—	4146,03	4242,79	3,24	2,36	,0237
51	,96067	—	162,57	255,73	6,84	39,10	,3933	1	,99901	—	8292,06	8388,98	3,08	1,19	,0120

TABLE I.

HEAT 51°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82929	100	—	100,00	—	100,00	1,0052	100 + 50	,90115	100	41,44	138,04	3,40	72,44	,7282
1	,83160	—	0,83	100,72	0,11	99,29	,9981	51	,90205	—	42,27	138,82	3,45	72,03	,7241
2	,83386	—	1,66	101,44	0,22	98,58	,9910	52	,90294	—	43,09	139,60	3,49	71,63	,7201
3	,83606	—	2,49	102,16	0,33	97,88	,9840	53	,90381	—	43,92	140,38	3,54	71,23	,7161
4	,83820	—	3,32	102,89	0,43	97,19	,9770	54	,90467	—	44,75	141,17	3,58	70,84	,7121
100 + 5	,84028	—	4,15	103,63	0,52	96,50	,9700	100 + 55	,90551	—	45,58	141,95	3,63	70,45	,7081
6	,84231	—	4,97	104,36	0,61	95,82	,9632	56	,90634	—	46,40	142,74	3,66	70,06	,7042
7	,84429	—	5,80	105,10	0,70	95,15	,9565	57	,90715	—	47,23	143,52	3,71	69,67	,7004
8	,84622	—	6,63	105,84	0,79	94,48	,9498	58	,90795	—	48,06	144,31	3,75	69,29	,6966
9	,84810	—	7,46	106,58	0,88	93,82	,9432	59	,90874	—	48,89	145,09	3,80	68,92	,6928
100 + 10	,84994	—	8,29	107,33	0,96	93,17	,9366	100 + 60	,90952	—	49,72	145,88	3,84	68,55	,6890
11	,85174	—	9,12	108,08	1,04	92,53	,9301	61	,91028	—	50,55	146,67	3,88	68,18	,6853
12	,85350	—	9,94	108,83	1,11	91,89	,9237	62	,91104	—	51,38	147,46	3,92	67,81	,6817
13	,85522	—	10,78	109,58	1,20	91,26	,9174	63	,91179	—	52,21	148,24	3,97	67,45	,6781
14	,85691	—	11,60	110,33	1,27	90,64	,9111	64	,91252	—	53,04	149,04	4,00	67,09	,6745
100 + 15	,85855	—	12,43	111,08	1,35	90,02	,9049	100 + 65	,91324	—	53,87	149,83	4,04	66,74	,6709
16	,86016	—	13,26	111,84	1,42	89,41	,8988	66	,91397	—	54,70	150,62	4,08	66,39	,6674
17	,86173	—	14,09	112,59	1,50	88,81	,8928	67	,91469	—	55,53	151,40	4,13	66,04	,6639
18	,86328	—	14,92	113,35	1,57	88,22	,8868	68	,91541	—	56,35	152,19	4,16	65,70	,6605
19	,86480	—	15,74	114,11	1,63	87,63	,8809	69	,91610	—	57,18	152,98	4,20	65,36	,6571
100 + 20	,86629	—	16,57	114,88	1,69	87,05	,8750	100 + 70	,91679	—	58,01	153,77	4,24	65,03	,6537
21	,86776	—	17,40	115,64	1,76	86,48	,8692	71	,91747	—	58,84	154,56	4,28	64,70	,6504
22	,86920	—	18,23	116,40	1,83	85,91	,8635	72	,91813	—	59,67	155,35	4,32	64,37	,6471
23	,87062	—	19,06	117,16	1,90	85,35	,8579	73	,91879	—	60,49	156,15	4,34	64,04	,6438
24	,87201	—	19,89	117,93	1,96	84,80	,8524	74	,91944	—	61,32	156,94	4,38	63,72	,6405
100 + 25	,87337	—	20,72	118,69	2,03	84,25	,8469	100 + 75	,92009	—	62,15	157,73	4,42	63,40	,6373
26	,87472	—	21,55	119,46	2,09	83,71	,8415	76	,92070	—	62,98	158,52	4,46	63,08	,6341
27	,87603	—	22,38	120,23	2,15	83,18	,8361	77	,92133	—	63,81	159,31	4,50	62,77	,6309
28	,87732	—	23,21	120,99	2,22	82,65	,8308	78	,92195	—	64,64	160,11	4,53	62,46	,6278
29	,87859	—	24,04	121,76	2,28	82,13	,8256	79	,92256	—	65,48	160,90	4,58	62,15	,6247
100 + 30	,87984	—	24,87	122,54	2,33	81,61	,8204	100 + 80	,92316	—	66,30	161,70	4,60	61,84	,6217
31	,88107	—	25,69	123,30	2,39	81,10	,8153	81	,92375	—	67,12	162,49	4,63	61,54	,6187
32	,88228	—	26,51	124,07	2,44	80,60	,8102	82	,92434	—	67,95	163,29	4,66	61,24	,6157
33	,88347	—	27,35	124,84	2,51	80,10	,8052	83	,92492	—	68,78	164,08	4,70	60,94	,6127
34	,88464	—	28,18	125,62	2,56	79,61	,8002	84	,92549	—	69,61	164,88	4,73	60,65	,6097
100 + 35	,88580	—	29,01	126,39	2,62	79,12	,7953	100 + 85	,92604	—	70,44	165,67	4,77	60,36	,6067
36	,88693	—	29,83	127,16	2,67	78,64	,7905	86	,92661	—	71,27	166,47	4,80	60,07	,6038
37	,88804	—	30,66	127,93	2,73	78,16	,7857	87	,92716	—	72,10	167,26	4,84	59,79	,6010
38	,88914	—	31,49	128,71	2,78	77,69	,7810	88	,92770	—	72,93	168,06	4,87	59,50	,5982
39	,89022	—	32,32	129,48	2,84	77,22	,7763	89	,92824	—	73,76	168,85	4,91	59,22	,5954
100 + 40	,89128	—	33,15	130,26	2,89	76,76	,7717	100 + 90	,92877	—	74,59	169,64	4,95	58,95	,5925
41	,89234	—	33,98	131,04	2,94	76,31	,7671	91	,92930	—	75,42	170,44	4,98	58,67	,5898
42	,89337	—	34,81	131,81	3,00	75,86	,7626	92	,92982	—	76,25	171,24	5,01	58,40	,5870
43	,89439	—	35,63	132,59	3,04	75,42	,7582	93	,93034	—	77,07	172,04	5,03	58,13	,5843
44	,89540	—	36,46	133,37	3,09	74,98	,7538	94	,93085	—	77,90	172,83	5,07	57,86	,5816
100 + 45	,89638	—	37,29	134,15	3,14	74,54	,7494	100 + 95	,93135	—	78,73	173,63	5,10	57,59	,5789
46	,89737	—	38,12	134,92	3,20	74,11	,7450	96	,93184	—	79,55	174,42	5,13	57,33	,5763
47	,89834	—	38,95	135,70	3,25	73,69	,7408	97	,93233	—	80,37	175,21	5,16	57,07	,5737
48	,89929	—	39,78	136,48	3,30	73,27	,7366	98	,93281	—	81,20	176,00	5,20	56,81	,5711
49	,90023	—	40,60	137,26	3,34	72,85	,7324	99	,93329	—	82,03	176,80	5,23	56,56	,5685



TABLE II.

HEAT 51°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and Spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93377	100	82,87	177,61	5,26	56,30	.5659	100 + 50	.96094	100	165,75	258,89	6,86	38,62	.3883
99	.93425	—	83,71	178,43	5,28	56,04	.5633	49	.96154	—	169,14	262,26	6,88	38,13	.3833
98	.93474	—	84,57	179,27	5,30	55,78	.5607	48	.96213	—	172,66	265,76	6,90	37,63	.3782
97	.93521	—	85,45	180,10	5,35	55,52	.5581	47	.96273	—	176,32	269,41	6,91	37,12	.3731
96	.93569	—	86,33	180,95	5,38	55,26	.5555	46	.96331	—	180,16	273,23	6,93	36,60	.3679
100 + 95	.93616	—	87,23	181,83	5,40	54,99	.5528	100 + 45	.96391	—	184,17	277,23	6,94	36,07	.3626
94	.93664	—	88,16	182,73	5,43	54,72	.5502	44	.96449	—	188,36	281,40	6,96	35,53	.3572
93	.93713	—	89,11	183,64	5,47	54,45	.5474	43	.96508	—	192,73	285,77	6,96	34,99	.3517
92	.93761	—	90,08	184,59	5,49	54,18	.5446	42	.96566	—	197,32	290,37	6,95	34,44	.3462
91	.93808	—	91,07	185,55	5,52	53,90	.5418	41	.96624	—	202,13	295,17	6,96	33,88	.3406
100 + 90	.93856	—	92,08	186,53	5,55	53,61	.5389	100 + 40	.96682	—	207,19	300,22	6,97	33,31	.3348
89	.93906	—	93,12	187,54	5,58	53,32	.5360	39	.96739	—	212,50	305,52	6,98	32,73	.3290
88	.93956	—	94,18	188,56	5,62	53,03	.5331	38	.96798	—	218,09	311,12	6,97	32,14	.3231
87	.94007	—	95,26	189,61	5,65	52,74	.5301	37	.96856	—	223,99	317,02	6,97	31,54	.3170
86	.94058	—	96,37	190,69	5,68	52,44	.5271	36	.96914	—	230,21	323,25	6,96	30,93	.3109
100 + 85	.94108	—	97,50	191,79	5,71	52,14	.5241	100 + 35	.96972	—	236,78	329,84	6,94	30,32	.3047
84	.94161	—	98,65	192,92	5,73	51,84	.5211	34	.97029	—	243,75	336,82	6,93	29,69	.2984
83	.94214	—	99,84	194,07	5,77	51,53	.5180	33	.97088	—	251,14	344,24	6,90	29,05	.2920
82	.94267	—	101,07	195,25	5,82	51,22	.5148	32	.97146	—	258,99	352,12	6,87	28,40	.2855
81	.94320	—	102,31	196,47	5,84	50,90	.5116	31	.97204	—	267,34	360,50	6,84	27,74	.2789
100 + 80	.94373	—	103,59	197,71	5,88	50,58	.5084	100 + 30	.97264	—	276,25	369,46	6,79	27,07	.2721
79	.94427	—	104,90	198,99	5,91	50,25	.5052	29	.97323	—	285,78	379,03	6,75	26,38	.2652
78	.94481	—	106,25	200,29	5,96	49,92	.5019	28	.97384	—	295,98	389,28	6,70	25,69	.2582
77	.94536	—	107,63	201,64	5,99	49,59	.4986	27	.97446	—	306,95	400,30	6,65	24,98	.2511
76	.94590	—	109,05	203,03	6,02	49,25	.4952	26	.97508	—	318,75	412,17	6,58	24,26	.2439
100 + 75	.94644	—	110,50	204,44	6,06	48,91	.4917	100 + 25	.97572	—	331,50	424,97	6,53	23,53	.2366
74	.94698	—	111,99	205,91	6,08	48,56	.4882	24	.97635	—	345,32	438,84	6,48	22,78	.2291
73	.94754	—	113,52	207,40	6,12	48,21	.4847	23	.97701	—	360,33	453,92	6,41	22,03	.2215
72	.94809	—	115,10	208,96	6,14	47,86	.4811	22	.97768	—	376,71	470,38	6,33	21,26	.2137
71	.94864	—	116,72	210,54	6,18	47,50	.4774	21	.97836	—	394,65	488,40	6,25	20,47	.2058
100 + 70	.94920	—	118,39	212,17	6,22	47,13	.4737	100 + 20	.97906	—	414,38	508,22	6,16	19,67	.1978
69	.94976	—	120,10	213,85	6,25	46,76	.4700	19	.97977	—	436,19	530,12	6,07	18,86	.1896
68	.95034	—	121,87	215,59	6,28	46,38	.4663	18	.98049	—	460,43	554,46	5,97	18,03	.1813
67	.95091	—	123,69	217,37	6,32	46,00	.4625	17	.98124	—	487,51	581,65	5,86	17,19	.1728
66	.95148	—	125,57	219,21	6,36	45,62	.4586	16	.98202	—	517,98	612,24	5,74	16,33	.1642
100 + 65	.95206	—	127,50	221,10	6,40	45,23	.4546	100 + 15	.98283	—	552,51	646,89	5,62	15,46	.1554
64	.95264	—	129,49	223,07	6,42	44,83	.4506	14	.98366	—	591,98	686,50	5,48	14,57	.1464
63	.95322	—	131,54	225,09	6,45	44,43	.4466	13	.98453	—	637,51	732,17	5,34	13,66	.1373
62	.95380	—	133,67	227,18	6,49	44,02	.4425	12	.98543	—	690,64	785,44	5,20	12,73	.1280
61	.95440	—	135,86	229,34	6,52	43,61	.4383	11	.98638	—	753,42	848,38	5,04	11,79	.1185
100 + 60	.95499	—	138,12	231,57	6,55	43,19	.4341	100 + 10	.98737	—	828,76	923,87	4,89	10,82	.1088
59	.95558	—	140,45	233,87	6,58	42,76	.4298	9	.98839	—	920,86	1016,15	4,71	9,84	.0989
58	.95619	—	142,88	236,25	6,63	42,32	.4255	8	.98948	—	1035,96	1131,44	4,52	8,84	.0888
57	.95678	—	145,39	238,72	6,67	41,89	.4211	7	.99063	—	1183,96	1279,62	4,34	7,81	.0785
56	.95737	—	147,99	241,30	6,69	41,44	.4166	6	.99184	—	1381,28	1477,14	4,14	6,77	.0680
100 + 55	.95798	—	150,68	243,96	6,72	40,99	.4120	100 + 5	.99310	—	1657,54	1753,61	3,93	5,70	.0573
54	.95857	—	153,45	246,72	6,73	40,53	.4075	4	.99443	—	2071,91	2168,21	3,70	4,61	.0464
53	.95916	—	156,33	249,58	6,75	40,06	.4028	3	.99586	—	2762,56	2859,06	3,50	3,50	.0352
52	.95976	—	159,34	252,56	6,78	39,59	.3980	2	.99737	—	4143,84	4240,54	3,30	2,36	.0237
51	.96035	—	162,48	255,66	6,82	39,11	.3932	1	.99896	—	8287,67	8384,55	3,12	1,19	.0120

TABLE I.

HEAT 52°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82881	100	—	100,00	—	100,00	1,0046	100 + 50	,90069	100	41,41	138,03	3,38	72,45	,7278
1	,83112	—	0,83	100,72	0,11	99,29	,9975	51	,90160	—	42,24	138,81	3,43	72,04	,7237
2	,83337	—	1,66	101,44	0,22	98,58	,9904	52	,90248	—	43,07	139,59	3,48	71,64	,7197
3	,83558	—	2,49	102,16	0,33	97,88	,9834	53	,90336	—	43,90	140,37	3,53	71,24	,7157
4	,83771	—	3,32	102,89	0,43	97,19	,9764	54	,90421	—	44,73	141,16	3,57	70,84	,7118
100 + 5	,83980	—	4,15	103,63	0,52	96,50	,9695	100 + 55	,90505	—	45,56	141,94	3,62	70,45	,7078
6	,84183	—	4,97	104,36	0,61	95,82	,9627	56	,90588	—	46,38	142,73	3,65	70,06	,7039
7	,84381	—	5,80	105,10	0,70	95,15	,9560	57	,90669	—	47,21	143,51	3,70	69,68	,7001
8	,84574	—	6,63	105,84	0,79	94,48	,9493	58	,90749	—	48,04	144,30	3,74	69,30	,6962
9	,84762	—	7,45	106,58	0,87	93,82	,9427	59	,90828	—	48,87	145,08	3,79	68,92	,6924
100 + 10	,84946	—	8,28	107,33	0,95	93,17	,9361	100 + 60	,90906	—	49,69	145,87	3,82	68,55	,6887
11	,85126	—	9,11	108,08	1,03	92,53	,9296	61	,90982	—	50,52	146,66	3,86	68,18	,6850
12	,85302	—	9,94	108,82	1,12	91,89	,9232	62	,91059	—	51,36	147,45	3,91	67,82	,6814
13	,85474	—	10,77	109,57	1,20	91,26	,9169	63	,91134	—	52,18	148,23	3,95	67,46	,6778
14	,85643	—	11,60	110,33	1,27	90,64	,9106	64	,91206	—	53,01	149,03	3,98	67,10	,6741
100 + 15	,85808	—	12,43	111,08	1,35	90,02	,9044	100 + 65	,91279	—	53,84	149,82	4,02	66,75	,6706
16	,85969	—	13,25	111,83	1,42	89,42	,8983	66	,91352	—	54,67	150,61	4,06	66,40	,6671
17	,86126	—	14,08	112,59	1,49	88,82	,8923	67	,91424	—	55,50	151,39	4,11	66,05	,6636
18	,86280	—	14,91	113,35	1,56	88,22	,8863	68	,91496	—	56,32	152,18	4,14	65,71	,6602
19	,86433	—	15,73	114,11	1,62	87,63	,8804	69	,91566	—	57,15	152,97	4,18	65,37	,6568
100 + 20	,86582	—	16,56	114,87	1,69	87,05	,8746	100 + 70	,91634	—	57,98	153,76	4,22	65,03	,6534
21	,86729	—	17,39	115,63	1,76	86,48	,8688	71	,91703	—	58,81	154,55	4,26	64,70	,6501
22	,86873	—	18,22	116,39	1,83	85,92	,8631	72	,91770	—	59,64	155,34	4,30	64,37	,6468
23	,87015	—	19,05	117,15	1,90	85,36	,8575	73	,91836	—	60,46	156,13	4,33	64,04	,6435
24	,87154	—	19,88	117,92	1,96	84,81	,8520	74	,91901	—	61,29	156,92	4,37	63,73	,6402
100 + 25	,87291	—	20,71	118,69	2,02	84,26	,8465	100 + 75	,91966	—	62,12	157,71	4,41	63,41	,6370
26	,87425	—	21,54	119,45	2,09	83,72	,8410	76	,92028	—	62,95	158,50	4,45	63,09	,6338
27	,87556	—	22,37	120,22	2,15	83,18	,8357	77	,92090	—	63,78	159,29	4,49	62,78	,6306
28	,87685	—	23,20	120,99	2,21	82,65	,8304	78	,92153	—	64,61	160,09	4,52	62,47	,6275
29	,87812	—	24,02	121,76	2,26	82,13	,8252	79	,92214	—	65,44	160,88	4,56	62,16	,6245
100 + 30	,87937	—	24,86	122,53	2,33	81,62	,8199	100 + 80	,92274	—	66,27	161,68	4,59	61,85	,6214
31	,88060	—	25,68	123,30	2,38	81,11	,8148	81	,92333	—	67,09	162,47	4,62	61,55	,6184
32	,88181	—	26,50	124,07	2,43	80,60	,8097	82	,92392	—	67,92	163,27	4,65	61,25	,6154
33	,88300	—	27,33	124,84	2,49	80,10	,8047	83	,92450	—	68,75	164,06	4,69	60,95	,6124
34	,88418	—	28,16	125,61	2,55	79,61	,7998	84	,92507	—	69,57	164,86	4,71	60,66	,6094
100 + 35	,88533	—	28,99	126,39	2,60	79,13	,7949	100 + 85	,92562	—	70,41	165,65	4,76	60,37	,6065
36	,88647	—	29,82	127,16	2,66	78,65	,7901	86	,92619	—	71,24	166,45	4,79	60,08	,6036
37	,88758	—	30,65	127,92	2,73	78,17	,7853	87	,92674	—	72,06	167,24	4,82	59,80	,6007
38	,88868	—	31,48	128,70	2,78	77,70	,7806	88	,92728	—	72,89	168,03	4,86	59,51	,5979
39	,88976	—	32,30	129,47	2,83	77,23	,7759	89	,92782	—	73,72	168,83	4,89	59,23	,5951
100 + 40	,89083	—	33,13	130,25	2,88	76,77	,7713	100 + 90	,92835	—	74,55	169,62	4,93	58,95	,5922
41	,89188	—	33,96	131,03	2,93	76,32	,7667	91	,92887	—	75,38	170,42	4,96	58,68	,5895
42	,89292	—	34,79	131,80	2,99	75,87	,7622	92	,92939	—	76,21	171,22	4,99	58,40	,5867
43	,89394	—	35,61	132,58	3,03	75,42	,7578	93	,92991	—	77,03	172,02	5,01	58,13	,5840
44	,89495	—	36,44	133,36	3,08	74,98	,7534	94	,93042	—	77,86	172,81	5,05	57,86	,5813
100 + 45	,89593	—	37,27	134,14	3,13	74,55	,7490	100 + 95	,93092	—	78,69	173,61	5,08	57,60	,5787
46	,89692	—	38,10	134,91	3,19	74,12	,7446	96	,93141	—	79,51	174,40	5,11	57,34	,5760
47	,89789	—	38,93	135,69	3,24	73,70	,7404	97	,93191	—	80,33	175,19	5,14	57,08	,5734
48	,89834	—	39,76	136,47	3,29	73,28	,7362	98	,93239	—	81,16	175,98	5,18	56,82	,5708
49	,89978	—	40,58	137,25	3,33	72,86	,7320	99	,93287	—	81,99	176,78	5,21	56,56	,5682

TABLE II.

HEAT 52°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93334	100	82,83	177,59	5,24	56,30	.5657	100 + 50	.96062	100	165,66	258,83	6,83	38,63	.3881
99	.93383	—	83,67	178,41	5,26	56,05	.5631	49	.96122	—	169,05	262,20	6,85	38,14	.3832
98	.93432	—	84,53	179,24	5,29	55,79	.5605	48	.96182	—	172,57	265,69	6,88	37,63	.3781
97	.93479	—	85,41	180,08	5,33	55,53	.5579	47	.96242	—	176,23	269,34	6,89	37,13	.3730
96	.93528	—	86,29	180,93	5,36	55,27	.5553	46	.96301	—	180,06	273,16	6,90	36,61	.3678
100 + 95	.93575	—	87,19	181,80	5,39	55,00	.5526	100 + 45	.96362	—	184,07	277,16	6,91	36,08	.3625
94	.93623	—	88,12	182,70	5,42	54,73	.5499	44	.96420	—	188,26	281,32	6,94	35,54	.3571
93	.93672	—	89,06	183,62	5,44	54,46	.5471	43	.96479	—	192,63	285,69	6,94	35,00	.3516
92	.93720	—	90,03	184,56	5,47	54,19	.5443	42	.96538	—	197,21	290,28	6,93	34,45	.3461
91	.93768	—	91,02	185,53	5,49	53,91	.5415	41	.96597	—	202,02	295,08	6,94	33,89	.3405
100 + 90	.93816	—	92,03	186,50	5,53	53,62	.5387	100 + 40	.96655	—	207,08	300,12	6,96	33,32	.3347
89	.93866	—	93,07	187,51	5,57	53,33	.5358	39	.96713	—	212,39	305,43	6,96	32,74	.3289
88	.93916	—	94,13	188,53	5,60	53,04	.5329	38	.96772	—	217,97	311,02	6,95	32,15	.3230
87	.93967	—	95,21	189,58	5,63	52,75	.5299	37	.96831	—	223,87	316,93	6,94	31,55	.3169
86	.94018	—	96,32	190,66	5,66	52,45	.5269	36	.96890	—	230,09	323,15	6,94	30,94	.3108
100 + 85	.94068	—	97,45	191,76	5,69	52,15	.5239	100 + 35	.96949	—	236,66	329,73	6,93	30,33	.3047
84	.94121	—	98,60	192,89	5,71	51,85	.5209	34	.97006	—	243,62	336,71	6,91	29,70	.2984
83	.94173	—	99,79	194,04	5,75	51,54	.5178	33	.97065	—	251,01	344,12	6,89	29,06	.2920
82	.94226	—	101,01	195,22	5,79	51,22	.5146	32	.97124	—	258,85	352,00	6,85	28,41	.2855
81	.94280	—	102,26	196,44	5,82	50,91	.5114	31	.97183	—	267,20	360,37	6,83	27,75	.2788
100 + 80	.94333	—	103,54	197,68	5,86	50,59	.5082	100 + 30	.97244	—	276,10	369,32	6,78	27,08	.2720
79	.94387	—	104,85	198,96	5,89	50,26	.5050	29	.97303	—	285,63	378,89	6,74	26,39	.2651
78	.94441	—	106,20	200,26	5,94	49,93	.5017	28	.97364	—	295,82	389,13	6,69	25,70	.2581
77	.94496	—	107,57	201,61	5,96	49,59	.4984	27	.97427	—	306,79	400,14	6,65	24,99	.2510
76	.94550	—	108,99	202,99	6,00	49,26	.4950	26	.97490	—	318,58	412,00	6,58	24,27	.2438
100 + 75	.94604	—	110,44	204,41	6,03	48,92	.4915	100 + 25	.97554	—	331,33	424,80	6,53	23,54	.2365
74	.94659	—	111,93	205,87	6,06	48,57	.4880	24	.97618	—	345,14	438,66	6,48	22,79	.2290
73	.94715	—	113,46	207,37	6,09	48,22	.4845	23	.97684	—	360,14	453,73	6,41	22,04	.2214
72	.94770	—	115,04	208,92	6,12	47,86	.4809	22	.97752	—	376,51	470,18	6,33	21,27	.2136
71	.94825	—	116,66	210,51	6,15	47,50	.4773	21	.97821	—	394,44	488,19	6,25	20,48	.2058
100 + 70	.94881	—	118,33	212,14	6,19	47,14	.4736	100 + 20	.97892	—	414,16	508,00	6,16	19,68	.1978
69	.94938	—	120,04	213,82	6,22	46,76	.4699	19	.97963	—	435,96	529,88	6,08	18,87	.1896
68	.94996	—	121,80	215,55	6,25	46,39	.4661	18	.98036	—	460,19	554,21	5,98	18,04	.1813
67	.95053	—	123,62	217,33	6,29	46,01	.4623	17	.98112	—	487,25	581,38	5,87	17,20	.1728
66	.95110	—	125,50	219,17	6,33	45,62	.4584	16	.98190	—	517,71	611,95	5,76	16,34	.1642
100 + 65	.95169	—	127,43	221,06	6,37	45,23	.4544	100 + 15	.98272	—	552,22	646,58	5,64	15,47	.1554
64	.95227	—	129,42	223,02	6,40	44,83	.4505	14	.98355	—	591,67	686,17	5,50	14,57	.1464
63	.95285	—	131,47	225,04	6,43	44,43	.4466	13	.98443	—	637,18	731,81	5,37	13,66	.1373
62	.95344	—	133,60	227,13	6,47	44,02	.4423	12	.98534	—	690,28	785,06	5,22	12,74	.1280
61	.95404	—	135,79	229,29	6,50	43,61	.4382	11	.98629	—	753,03	847,96	5,07	11,80	.1185
100 + 60	.95463	—	138,05	231,52	6,53	43,19	.4339	100 + 10	.98729	—	828,33	923,41	4,92	10,83	.1088
59	.95523	—	140,38	233,82	6,56	42,77	.4297	9	.98831	—	920,38	1015,64	4,74	9,85	.0989
58	.95584	—	142,80	236,20	6,60	42,33	.4253	8	.98940	—	1035,42	1130,87	4,55	8,84	.0888
57	.95643	—	145,31	238,67	6,64	41,89	.4209	7	.99056	—	1183,34	1278,97	4,37	7,82	.0785
56	.95703	—	147,91	241,24	6,67	41,45	.4164	6	.99177	—	1380,56	1476,38	4,18	6,77	.0680
100 + 55	.95764	—	150,60	243,90	6,70	41,00	.4119	100 + 5	.99304	—	1656,67	1752,70	3,97	5,70	.0573
54	.95823	—	153,37	246,65	6,71	40,54	.4073	4	.99437	—	2070,83	2167,08	3,75	4,61	.0464
53	.95883	—	156,25	249,52	6,73	40,07	.4026	3	.99580	—	2761,11	2857,56	3,55	3,50	.0352
52	.95943	—	159,26	252,50	6,76	39,60	.3979	2	.99731	—	4141,66	4238,31	3,35	2,36	.0237
51	.96002	—	162,39	255,60	6,79	39,12	.3930	1	.99890	—	8283,32	8380,15	3,17	1,19	.0120

TABLE I.

HEAT 53°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82833	100	—	100,00	—	100,00	1,0040	100 + 50	,90024	100	41,39	138,02	3,37	72,46	,7275
1	,83063	—	0,83	100,72	0,11	99,29	,9969	51	,90114	—	42,22	138,80	3,42	72,05	,7234
2	,83288	—	1,66	101,44	0,22	98,58	,9898	52	,90203	—	43,05	139,58	3,47	71,64	,7194
3	,83509	—	2,49	102,16	0,33	97,88	,9828	53	,90290	—	43,87	140,36	3,51	71,24	,7154
4	,83723	—	3,32	102,89	0,43	97,19	,9758	54	,90375	—	44,70	141,15	3,55	70,85	,7114
100 + 5	,83932	—	4,14	103,63	0,51	96,50	,9689	100 + 55	,90459	—	45,53	141,93	3,60	70,46	,7074
6	,84135	—	4,97	104,36	0,61	95,82	,9622	56	,90542	—	46,35	142,72	3,63	70,07	,7036
7	,84332	—	5,80	105,10	0,70	95,15	,9555	57	,90623	—	47,18	143,50	3,68	69,68	,6997
8	,84526	—	6,63	105,84	0,79	94,48	,9488	58	,90703	—	48,01	144,29	3,72	69,30	,6958
9	,84714	—	7,45	106,58	0,87	93,82	,9422	59	,90782	—	48,84	145,07	3,77	68,93	,6921
100 + 10	,84898	—	8,28	107,33	0,95	93,17	,9355	100 + 60	,90860	—	49,67	145,86	3,81	68,56	,6883
11	,85078	—	9,11	108,08	1,03	92,53	,9291	61	,90937	—	50,50	146,65	3,85	68,19	,6846
12	,85254	—	9,93	108,82	1,11	91,90	,9227	62	,91013	—	51,33	147,44	3,89	67,82	,6811
13	,85426	—	10,76	109,57	1,19	91,27	,9164	63	,91088	—	52,15	148,22	3,93	67,46	,6775
14	,85595	—	11,59	110,33	1,26	90,65	,9101	64	,91161	—	52,98	149,01	3,97	67,11	,6738
100 + 15	,85760	—	12,42	111,08	1,34	90,03	,9039	100 + 65	,91234	—	53,81	149,80	4,01	66,76	,6702
16	,85921	—	13,25	111,83	1,42	89,42	,8978	66	,91307	—	54,64	150,59	4,05	66,41	,6667
17	,86078	—	14,07	112,59	1,48	88,82	,8918	67	,91379	—	55,47	151,37	4,10	66,06	,6633
18	,86233	—	14,90	113,35	1,55	88,22	,8858	68	,91451	—	56,29	152,16	4,13	65,72	,6599
19	,86386	—	15,72	114,10	1,62	87,63	,8799	69	,91522	—	57,12	152,95	4,17	65,38	,6565
100 + 20	,86535	—	16,56	114,87	1,69	87,05	,8741	100 + 70	,91590	—	57,95	153,74	4,21	65,04	,6531
21	,86682	—	17,39	115,63	1,76	86,48	,8684	71	,91659	—	58,78	154,53	4,25	64,71	,6498
22	,86826	—	18,21	116,39	1,82	85,92	,8627	72	,91726	—	59,61	155,32	4,29	64,38	,6465
23	,86968	—	19,04	117,15	1,89	85,36	,8571	73	,91793	—	60,43	156,11	4,32	64,05	,6432
24	,87107	—	19,87	117,91	1,96	84,81	,8516	74	,91858	—	61,26	156,90	4,36	63,73	,6399
100 + 25	,87244	—	20,70	118,68	2,02	84,26	,8460	100 + 75	,91923	—	62,09	157,69	4,40	63,41	,6367
26	,87378	—	21,52	119,44	2,08	83,72	,8406	76	,91986	—	62,91	158,48	4,43	63,09	,6335
27	,87509	—	22,35	120,21	2,14	83,18	,8352	77	,92048	—	63,75	159,27	4,48	62,78	,6303
28	,87638	—	23,19	120,98	2,21	82,66	,8299	78	,92110	—	64,57	160,08	4,49	62,47	,6272
29	,87765	—	24,01	121,75	2,26	82,13	,8247	79	,92171	—	65,41	160,86	4,55	62,16	,6242
100 + 30	,87890	—	24,84	122,52	2,32	81,62	,8195	100 + 80	,92231	—	66,23	161,66	4,57	61,86	,6211
31	,88013	—	25,67	123,29	2,38	81,11	,8144	81	,92290	—	67,05	162,46	4,59	61,55	,6181
32	,88134	—	26,48	124,06	2,42	80,61	,8093	82	,92349	—	67,88	163,25	4,63	61,25	,6151
33	,88254	—	27,32	124,83	2,49	80,11	,8043	83	,92407	—	68,71	164,04	4,67	60,96	,6121
34	,88371	—	28,15	125,60	2,55	79,62	,7994	84	,92464	—	69,53	164,84	4,69	60,66	,6091
100 + 35	,88486	—	28,98	126,38	2,60	79,13	,7945	100 + 85	,92520	—	70,37	165,63	4,74	60,37	,6062
36	,88600	—	29,80	127,15	2,65	78,65	,7897	86	,92577	—	71,20	166,42	4,78	60,09	,6033
37	,88712	—	30,63	127,92	2,71	78,17	,7849	87	,92632	—	72,02	167,22	4,80	59,81	,6004
38	,88822	—	31,46	128,70	2,76	77,70	,7802	88	,92686	—	72,85	168,01	4,84	59,52	,5976
39	,88930	—	32,28	129,47	2,81	77,23	,7755	89	,92740	—	73,68	168,81	4,87	59,24	,5948
100 + 40	,89037	—	33,12	130,25	2,87	76,78	,7709	100 + 90	,92793	—	74,51	169,60	4,91	58,96	,5920
41	,89142	—	33,95	131,02	2,93	76,32	,7663	91	,92844	—	75,34	170,40	4,94	58,68	,5892
42	,89246	—	34,78	131,79	2,99	75,87	,7618	92	,92897	—	76,17	171,20	4,97	58,41	,5865
43	,89349	—	35,60	132,57	3,03	75,43	,7574	93	,92948	—	76,99	172,00	4,99	58,14	,5838
44	,89450	—	36,43	133,35	3,08	74,99	,7530	94	,92999	—	77,82	172,79	5,03	57,87	,5811
100 + 45	,89548	—	37,26	134,13	3,13	74,55	,7486	100 + 95	,93049	—	78,65	173,59	5,06	57,61	,5784
46	,89647	—	38,08	134,90	3,18	74,13	,7443	96	,93098	—	79,47	174,38	5,09	57,35	,5758
47	,89744	—	38,91	135,68	3,23	73,70	,7400	97	,93148	—	80,29	175,17	5,12	57,09	,5732
48	,89839	—	39,74	136,46	3,28	73,28	,7358	98	,93197	—	81,12	175,96	5,16	56,83	,5706
49	,89933	—	40,56	137,24	3,32	72,86	,7316	99	,93244	—	81,95	176,76	5,19	56,57	,5680

TABLE II.

HEAT 53°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,93291	100	82,78	177,57	5,21	56,31	,5654	100 + 50	,96030	100	165,57	258,76	6,81	38,64	,3880
99	,93341	—	83,63	178,38	5,25	56,05	,5628	49	,96091	—	168,96	262,14	6,82	38,14	,3831
98	,93390	—	84,49	179,22	5,27	55,79	,5602	48	,96151	—	172,48	265,62	6,86	37,64	,3780
97	,93438	—	85,36	180,06	5,30	55,53	,5576	47	,96211	—	176,14	269,27	6,87	37,14	,3729
96	,93486	—	86,24	180,91	5,33	55,27	,5550	46	,96271	—	179,97	273,08	6,89	36,62	,3677
100 + 95	,93534	—	87,14	181,78	5,36	55,01	,5523	100 + 45	,96332	—	183,97	277,08	6,89	36,09	,3624
94	,93582	—	88,08	182,68	5,40	54,74	,5496	44	,96391	—	188,16	281,24	6,92	35,55	,3570
93	,93631	—	89,01	183,59	5,42	54,47	,5469	43	,96450	—	192,53	285,60	6,93	35,01	,3515
92	,93679	—	89,98	184,53	5,45	54,19	,5441	42	,96510	—	197,11	290,19	6,92	34,46	,3460
91	,93728	—	90,97	185,50	5,47	53,91	,5413	41	,96570	—	201,92	294,99	6,93	33,90	,3404
100 + 90	,93776	—	91,98	186,47	5,51	53,62	,5384	100 + 40	,96628	—	206,97	300,03	6,94	33,33	,3346
89	,93826	—	93,02	187,48	5,54	53,33	,5356	39	,96687	—	212,28	305,34	6,94	32,75	,3288
88	,93876	—	94,08	188,50	5,58	53,05	,5327	38	,96747	—	217,86	310,93	6,93	32,16	,3229
87	,93927	—	95,16	189,55	5,61	52,75	,5297	37	,96806	—	223,75	316,83	6,92	31,56	,3169
86	,93978	—	96,27	190,63	5,64	52,45	,5267	36	,96866	—	229,97	323,05	6,92	30,95	,3108
100 + 85	,94028	—	97,40	191,73	5,67	52,15	,5237	100 + 35	,96925	—	236,54	329,62	6,92	30,34	,3046
84	,94081	—	98,55	192,86	5,69	51,85	,5207	34	,96983	—	243,50	336,59	6,91	29,71	,2983
83	,94133	—	99,74	194,01	5,73	51,55	,5176	33	,97043	—	250,88	344,00	6,88	29,07	,2919
82	,94186	—	100,96	195,19	5,77	51,23	,5144	32	,97102	—	258,71	351,87	6,84	28,42	,2854
81	,94240	—	102,20	196,41	5,79	50,91	,5112	31	,97162	—	267,06	360,24	6,82	27,76	,2788
100 + 80	,94293	—	103,48	197,65	5,83	50,59	,5080	100 + 30	,97223	—	275,96	369,19	6,77	27,09	,2719
79	,94347	—	104,79	198,92	5,87	50,27	,5048	29	,97283	—	285,48	378,75	6,73	26,40	,2651
78	,94401	—	106,14	200,23	5,91	49,94	,5015	28	,97345	—	295,67	388,98	6,69	25,71	,2581
77	,94456	—	107,51	201,58	5,93	49,60	,4982	27	,97408	—	306,63	399,98	6,65	25,00	,2510
76	,94510	—	108,93	202,96	5,97	49,27	,4948	26	,97472	—	318,41	411,83	6,58	24,28	,2438
100 + 75	,94564	—	110,38	204,38	6,00	48,93	,4913	100 + 25	,97536	—	331,16	424,63	6,53	23,55	,2364
74	,94620	—	111,87	205,83	6,04	48,58	,4878	24	,97601	—	344,96	438,48	6,48	22,80	,2290
73	,94676	—	113,40	207,34	6,06	48,23	,4843	23	,97668	—	359,95	453,54	6,41	22,05	,2214
72	,94731	—	114,98	208,89	6,09	47,87	,4807	22	,97736	—	376,31	469,98	6,33	21,28	,2136
71	,94787	—	116,60	210,47	6,13	47,51	,4771	21	,97806	—	394,23	487,98	6,25	20,49	,2057
100 + 70	,94843	—	118,27	212,11	6,16	47,14	,4734	100 + 20	,97877	—	413,94	507,78	6,16	19,69	,1977
69	,94900	—	119,96	213,78	6,20	46,77	,4697	19	,97949	—	435,73	529,65	6,08	18,88	,1895
68	,94958	—	121,74	215,51	6,24	46,40	,4659	18	,98023	—	459,95	553,96	5,99	18,05	,1812
67	,95015	—	123,56	217,29	6,27	46,02	,4621	17	,98100	—	487,00	581,12	5,88	17,21	,1727
66	,95073	—	125,44	219,13	6,31	45,63	,4582	16	,98179	—	517,44	611,66	5,78	16,35	,1641
100 + 65	,95131	—	127,37	221,02	6,35	45,24	,4543	100 + 15	,98261	—	551,93	646,28	5,65	15,48	,1553
64	,95190	—	129,35	222,98	6,37	44,84	,4503	14	,98345	—	591,36	685,84	5,52	14,58	,1463
63	,95249	—	131,40	225,00	6,40	44,44	,4462	13	,98433	—	636,85	731,46	5,39	13,67	,1372
62	,95308	—	133,53	227,09	6,44	44,03	,4421	12	,98525	—	689,92	784,68	5,24	12,74	,1280
61	,95368	—	135,72	229,25	6,47	43,62	,4380	11	,98620	—	752,64	847,54	5,10	11,80	,1185
100 + 60	,95428	—	137,98	231,47	6,51	43,20	,4338	100 + 10	,98720	—	827,90	922,95	4,95	10,84	,1088
59	,95488	—	140,31	233,77	6,54	42,77	,4295	9	,98823	—	919,90	1015,13	4,77	9,85	,0989
58	,95549	—	142,72	236,15	6,57	42,34	,4251	8	,98933	—	1034,88	1130,30	4,58	8,84	,0888
57	,95609	—	145,24	238,62	6,62	41,90	,4207	7	,99049	—	1182,72	1278,32	4,40	7,82	,0786
56	,95669	—	147,83	241,19	6,64	41,46	,4163	6	,99170	—	1379,84	1475,62	4,22	6,78	,0680
100 + 55	,95730	—	150,52	243,85	6,67	41,01	,4117	100 + 5	,99298	—	1655,81	1751,79	4,02	5,71	,0573
54	,95790	—	153,29	246,60	6,69	40,55	,4071	4	,99431	—	2069,75	2165,96	3,79	4,62	,0464
53	,95850	—	156,17	249,46	6,71	40,08	,4025	3	,99574	—	2759,66	2856,06	3,60	3,50	,0352
52	,95910	—	159,18	252,44	6,74	39,61	,3978	2	,99725	—	4139,50	4236,09	3,41	2,36	,0237
51	,95970	—	162,31	255,54	6,77	39,13	,3929	1	,99884	—	8279,00	8375,77	3,23	1,19	,0120



TABLE I.

HEAT 54°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82784	100	—	100,00	—	100,00	1,0034	100 + 50	,89978	100	41,37	138,01	3,36	72,46	,7271
1	,83015	—	0,83	100,72	0,11	99,29	,9963	51	,90068	—	42,20	138,79	3,41	72,05	,7230
2	,83240	—	1,66	101,44	0,22	98,58	,9892	52	,90157	—	43,03	139,57	3,46	71,65	,7190
3	,83460	—	2,49	102,16	0,33	97,88	,9822	53	,90244	—	43,85	140,35	3,50	71,25	,7150
4	,83674	—	3,31	102,89	0,42	97,19	,9752	54	,90329	—	44,68	141,14	3,54	70,85	,7110
100 + 5	,83883	—	4,14	103,63	0,51	96,50	,9683	100 + 55	,90413	—	45,51	141,92	3,59	70,46	,7071
6	,84086	—	4,96	104,36	0,60	95,82	,9616	56	,90496	—	46,33	142,71	3,62	70,07	,7032
7	,84283	—	5,79	105,10	0,69	95,15	,9549	57	,90577	—	47,16	143,49	3,67	69,69	,6993
8	,84477	—	6,62	105,84	0,78	94,48	,9482	58	,90657	—	47,99	144,28	3,71	69,31	,6955
9	,84666	—	7,45	106,58	0,87	93,83	,9416	59	,90736	—	48,81	145,06	3,75	68,93	,6917
100 + 10	,84850	—	8,28	107,32	0,96	93,18	,9350	100 + 60	,90814	—	49,64	145,85	3,79	68,56	,6880
11	,85030	—	9,11	108,07	1,04	92,54	,9286	61	,90891	—	50,47	146,64	3,83	68,20	,6843
12	,85206	—	9,93	108,82	1,11	91,90	,9222	62	,90967	—	51,30	147,43	3,87	67,83	,6807
13	,85378	—	10,76	109,57	1,19	91,27	,9159	63	,91042	—	52,12	148,21	3,91	67,47	,6771
14	,85547	—	11,59	110,32	1,27	90,65	,9096	64	,91115	—	52,95	149,00	3,95	67,11	,6734
100 + 15	,85712	—	12,41	111,08	1,33	90,03	,9034	100 + 65	,91189	—	53,78	149,79	3,99	66,76	,6699
16	,85873	—	13,24	111,83	1,41	89,42	,8973	66	,91262	—	54,61	150,58	4,03	66,41	,6664
17	,86031	—	14,07	112,58	1,49	88,82	,8913	67	,91334	—	55,44	151,36	4,08	66,06	,6630
18	,86186	—	14,90	113,34	1,56	88,23	,8853	68	,91406	—	56,26	152,15	4,11	65,72	,6596
19	,86339	—	15,71	114,10	1,61	87,64	,8794	69	,91477	—	57,09	152,94	4,15	65,38	,6562
100 + 20	,86488	—	16,55	114,86	1,69	87,06	,8736	100 + 70	,91546	—	57,92	153,73	4,19	65,05	,6528
21	,86635	—	17,38	115,62	1,76	86,49	,8679	71	,91615	—	58,75	154,52	4,23	64,72	,6495
22	,86779	—	18,20	116,38	1,82	85,92	,8622	72	,91682	—	59,58	155,31	4,27	64,39	,6462
23	,86921	—	19,03	117,14	1,89	85,36	,8566	73	,91750	—	60,40	156,09	4,31	64,06	,6429
24	,87060	—	19,86	117,91	1,95	84,81	,8511	74	,91815	—	61,23	156,88	4,35	63,74	,6396
100 + 25	,87197	—	20,69	118,68	2,01	84,26	,8455	100 + 75	,91880	—	62,06	157,68	4,38	63,42	,6364
26	,87331	—	21,51	119,44	2,07	83,72	,8401	76	,91944	—	62,88	158,47	4,41	63,10	,6332
27	,87462	—	22,34	120,21	2,13	83,19	,8348	77	,92006	—	63,71	159,25	4,46	62,79	,6300
28	,87591	—	23,18	120,98	2,20	82,66	,8295	78	,92067	—	64,54	160,06	4,48	62,48	,6269
29	,87718	—	23,99	121,75	2,24	82,14	,8243	79	,92128	—	65,37	160,84	4,53	62,17	,6239
100 + 30	,87843	—	24,83	122,52	2,31	81,62	,8190	100 + 80	,92189	—	66,20	161,64	4,56	61,86	,6208
31	,87966	—	25,65	123,29	2,36	81,11	,8139	81	,92247	—	67,02	162,44	4,58	61,56	,6178
32	,88087	—	26,47	124,06	2,41	80,61	,8088	82	,92307	—	67,85	163,23	4,62	61,26	,6148
33	,88207	—	27,30	124,83	2,47	80,11	,8039	83	,92365	—	68,67	164,02	4,65	60,96	,6118
34	,88324	—	28,14	125,60	2,54	79,62	,7990	84	,92421	—	69,50	164,82	4,68	60,67	,6088
100 + 35	,88439	—	28,96	126,37	2,59	79,13	,7941	100 + 85	,92478	—	70,33	165,61	4,72	60,38	,6059
36	,88554	—	29,79	127,14	2,65	78,65	,7893	86	,92535	—	71,17	166,40	4,77	60,09	,6030
37	,88666	—	30,62	127,91	2,71	78,18	,7845	87	,92590	—	71,98	167,20	4,78	59,81	,6001
38	,88776	—	31,45	128,69	2,76	77,71	,7798	88	,92644	—	72,81	167,99	4,82	59,52	,5973
39	,88884	—	32,26	129,46	2,80	77,24	,7751	89	,92797	—	73,64	168,79	4,85	59,24	,5945
100 + 40	,88991	—	33,10	130,24	2,86	76,78	,7705	100 + 90	,92751	—	74,47	169,58	4,89	58,96	,5917
41	,89097	—	33,93	131,01	2,92	76,33	,7659	91	,92802	—	75,30	170,38	4,92	58,69	,5889
42	,89201	—	34,76	131,78	2,98	75,88	,7614	92	,92854	—	76,13	171,18	4,95	58,42	,5862
43	,89304	—	35,58	132,56	3,02	75,43	,7570	93	,92905	—	76,95	171,98	4,97	58,15	,5835
44	,89405	—	36,41	133,34	3,07	74,99	,7526	94	,92956	—	77,78	172,77	5,01	57,88	,5808
100 + 45	,89503	—	37,24	134,12	3,12	74,56	,7482	100 + 95	,93006	—	78,61	173,57	5,04	57,61	,5781
46	,89602	—	38,06	134,89	3,17	74,13	,7438	96	,93055	—	79,43	174,36	5,07	57,35	,5755
47	,89699	—	38,89	135,67	3,22	73,71	,7396	97	,93105	—	80,25	175,15	5,10	57,09	,5729
48	,89794	—	39,72	136,45	3,27	73,29	,7354	98	,93154	—	81,08	175,94	5,14	56,83	,5703
49	,89887	—	40,54	137,23	3,31	72,87	,7312	99	,93202	—	81,91	176,74	5,17	56,58	,5677

TABLE II.

HEAT 54°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93249	100	82,74	177,55	5,19	56,32	.5652	100 + 50	.95998	100	165,49	258,70	6,79	38,65	.3879
99	.93299	—	83,59	178,36	5,23	56,06	.5626	49	.96059	—	168,87	262,08	6,79	38,15	.3830
98	.93348	—	84,44	179,19	5,25	55,80	.5600	48	.96120	—	172,39	265,55	6,84	37,65	.3779
97	.93396	—	85,32	180,04	5,28	55,54	.5574	47	.96181	—	176,05	269,20	6,85	37,15	.3728
96	.93445	—	86,20	180,89	5,31	55,28	.5548	46	.96241	—	179,88	273,01	6,87	36,63	.3676
100 + 95	.93493	—	87,10	181,76	5,34	55,02	.5521	100 + 45	.96302	—	183,88	277,00	6,88	36,10	.3623
94	.93541	—	88,03	182,66	5,37	54,75	.5494	44	.96362	—	188,06	281,16	6,90	35,56	.3569
93	.93590	—	88,96	183,57	5,39	54,47	.5466	43	.96422	—	192,43	285,52	6,91	35,02	.3514
92	.93639	—	89,93	184,50	5,43	54,20	.5439	42	.96482	—	197,01	290,10	6,91	34,47	.3459
91	.93688	—	90,92	185,47	5,45	53,92	.5410	41	.96543	—	201,82	294,90	6,92	33,91	.3403
100 + 90	.93736	—	91,93	186,44	5,49	53,63	.5382	100 + 40	.96601	—	206,86	299,94	6,92	33,34	.3345
89	.93786	—	92,97	187,45	5,52	53,34	.5353	39	.96661	—	212,17	305,25	6,92	32,76	.3287
88	.93836	—	94,03	188,47	5,56	53,05	.5324	38	.96722	—	217,75	310,83	6,92	32,17	.3228
87	.93887	—	95,11	189,52	5,59	52,76	.5295	37	.96781	—	223,64	316,74	6,90	31,57	.3168
86	.93938	—	96,22	190,60	5,62	52,46	.5265	36	.96842	—	229,85	322,95	6,90	30,96	.3107
100 + 85	.93988	—	97,35	191,70	5,65	52,16	.5235	100 + 35	.96901	—	236,42	329,51	6,91	30,35	.3045
84	.94041	—	98,50	192,83	5,67	51,86	.5205	34	.96960	—	243,37	336,48	6,89	29,72	.2982
83	.94092	—	99,69	193,98	5,71	51,55	.5174	33	.97021	—	250,75	343,89	6,86	29,08	.2918
82	.94146	—	100,91	195,16	5,75	51,24	.5142	32	.97081	—	258,58	351,75	6,83	28,43	.2853
81	.94200	—	102,15	196,38	5,77	50,92	.5110	31	.97141	—	266,92	360,11	6,81	27,77	.2787
100 + 80	.94253	—	103,43	197,62	5,81	50,60	.5078	100 + 30	.97202	—	275,82	369,05	6,77	27,10	.2719
79	.94307	—	104,74	198,89	5,85	50,28	.5046	29	.97263	—	285,33	378,60	6,73	26,41	.2650
78	.94361	—	106,08	200,20	5,88	49,95	.5013	28	.97326	—	295,52	388,83	6,69	25,72	.2581
77	.94416	—	107,46	201,55	5,91	49,61	.4980	27	.97389	—	306,47	399,82	6,65	25,01	.2509
76	.94471	—	108,87	202,93	5,94	49,28	.4946	26	.97454	—	318,25	411,66	6,59	24,29	.2437
100 + 75	.94525	—	110,32	204,35	5,97	48,93	.4910	100 + 25	.97518	—	330,99	424,46	6,53	23,56	.2364
74	.94581	—	111,81	205,80	6,01	48,59	.4876	24	.97584	—	344,78	438,30	6,48	22,81	.2289
73	.94637	—	113,34	207,30	6,04	48,24	.4841	23	.97652	—	359,76	453,36	6,40	22,06	.2213
72	.94693	—	114,92	208,85	6,07	47,88	.4805	22	.97720	—	376,11	469,78	6,33	21,29	.2135
71	.94749	—	116,54	210,44	6,10	47,52	.4769	21	.97791	—	394,03	487,77	6,26	20,50	.2057
100 + 70	.94805	—	118,21	212,07	6,14	47,15	.4732	100 + 20	.97862	—	413,73	507,56	6,17	19,70	.1977
69	.94862	—	119,92	213,74	6,18	46,78	.4695	19	.97935	—	435,51	529,42	6,09	18,89	.1895
68	.94920	—	121,68	215,47	6,21	46,41	.4657	18	.98010	—	459,71	553,71	6,00	18,06	.1812
67	.94978	—	123,50	217,25	6,25	46,03	.4619	17	.98088	—	486,75	580,86	5,89	17,22	.1727
66	.95036	—	125,37	219,09	6,28	45,64	.4580	16	.98168	—	517,17	611,38	5,79	16,36	.1641
100 + 65	.95094	—	127,31	220,98	6,33	45,25	.4541	100 + 15	.98250	—	551,64	645,98	5,66	15,48	.1553
64	.95153	—	129,28	222,94	6,34	44,85	.4501	14	.98335	—	591,05	685,51	5,54	14,59	.1463
63	.95213	—	131,33	224,95	6,38	44,45	.4461	13	.98423	—	636,52	731,11	5,41	13,68	.1372
62	.95272	—	133,46	227,04	6,42	44,04	.4420	12	.98516	—	689,56	784,30	5,26	12,75	.1279
61	.95332	—	135,65	229,20	6,45	43,63	.4378	11	.98611	—	752,25	847,13	5,12	11,81	.1184
100 + 60	.95393	—	137,91	231,42	6,49	43,21	.4336	100 + 10	.98711	—	827,47	922,49	4,98	10,84	.1088
59	.95453	—	140,24	233,72	6,52	42,78	.4293	9	.98815	—	919,42	1014,62	4,80	9,86	.0989
58	.95514	—	142,65	236,10	6,55	42,35	.4250	8	.98926	—	1034,34	1129,73	4,61	8,85	.0888
57	.95575	—	145,16	238,57	6,59	41,91	.4206	7	.99042	—	1182,10	1277,67	4,43	7,83	.0785
56	.95635	—	147,76	241,14	6,62	41,47	.4162	6	.99163	—	1379,12	1474,86	4,26	6,78	.0680
100 + 55	.95696	—	150,44	243,80	6,64	41,02	.4116	100 + 5	.99291	—	1654,95	1750,89	4,06	5,71	.0573
54	.95757	—	153,21	246,54	6,67	40,56	.4070	4	.99425	—	2068,67	2164,83	3,84	4,62	.0463
53	.95817	—	156,09	249,40	6,69	40,09	.4024	3	.99568	—	2758,23	2854,58	3,65	3,50	.0351
52	.95877	—	159,10	252,38	6,72	39,62	.3977	2	.99719	—	4137,35	4233,89	3,46	2,36	.0237
51	.95938	—	162,23	255,48	6,75	39,14	.3928	1	.99878	—	8274,71	8371,43	3,28	1,19	.0120

TABLE I.

HEAT 55°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of Bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	.82736	100	—	100,00	—	100,00	1,0029	100 + 50	.89933	100	41,35	138,00	3,35	72,47	.7267
1	.82967	—	0,83	100,72	0,11	99,29	.9957	51	.90023	—	42,18	138,78	3,40	72,06	.7226
2	.83192	—	1,65	101,44	0,21	98,58	.9886	52	.90111	—	43,01	139,56	3,45	71,65	.7186
3	.83412	—	2,48	102,16	0,32	97,88	.9816	53	.90198	—	43,83	140,34	3,49	71,25	.7146
4	.83626	—	3,31	102,89	0,42	97,19	.9747	54	.90283	—	44,66	141,13	3,53	70,86	.7106
100 + 5	.83834	—	4,13	103,62	0,51	96,50	.9678	100 + 55	.90367	—	45,49	141,91	3,58	70,47	.7067
6	.84037	—	4,96	104,36	0,60	95,82	.9610	56	.90450	—	46,31	142,70	3,61	70,08	.7028
7	.84235	—	5,79	105,10	0,69	95,15	.9543	57	.90531	—	47,14	143,48	3,66	69,69	.6989
8	.84429	—	6,62	105,84	0,78	94,49	.9476	58	.90611	—	47,97	144,27	3,70	69,31	.6951
9	.84618	—	7,44	106,58	0,86	93,83	.9410	59	.90690	—	48,79	145,05	3,74	68,94	.6913
100 + 10	.84802	—	8,27	107,32	0,95	93,18	.9345	100 + 60	.90768	—	49,62	145,84	3,78	68,57	.6876
11	.84982	—	9,10	108,07	1,03	92,54	.9280	61	.90845	—	50,45	146,63	3,82	68,20	.6839
12	.85158	—	9,92	108,81	1,11	91,90	.9216	62	.90921	—	51,28	147,42	3,86	67,83	.6803
13	.85330	—	10,75	109,56	1,19	91,27	.9153	63	.90996	—	52,10	148,20	3,90	67,48	.6767
14	.85499	—	11,58	110,32	1,26	90,65	.9091	64	.91070	—	52,93	148,99	3,94	67,12	.6731
100 + 15	.85664	—	12,41	111,07	1,34	90,03	.9029	100 + 65	.91144	—	53,76	149,78	3,98	66,77	.6696
16	.85825	—	13,23	111,82	1,41	89,43	.8968	66	.91217	—	54,58	150,57	4,01	66,42	.6661
17	.85984	—	14,06	112,58	1,48	88,83	.8908	67	.91289	—	55,41	151,35	4,06	66,07	.6626
18	.86139	—	14,89	113,34	1,55	88,23	.8848	68	.91361	—	56,24	152,14	4,10	65,73	.6592
19	.86292	—	15,71	114,09	1,62	87,64	.8789	69	.91432	—	57,07	152,93	4,14	65,39	.6558
100 + 20	.86441	—	16,54	114,86	1,68	87,06	.8731	100 + 70	.91502	—	57,89	153,71	4,18	65,06	.6524
21	.86588	—	17,37	115,62	1,75	86,49	.8674	71	.91571	—	58,72	154,50	4,22	64,73	.6491
22	.86732	—	18,19	116,38	1,81	85,93	.8617	72	.91639	—	59,55	155,29	4,26	64,40	.6458
23	.86874	—	19,02	117,14	1,88	85,37	.8561	73	.91706	—	60,37	156,08	4,29	64,07	.6425
24	.87013	—	19,85	117,90	1,95	84,82	.8506	74	.91772	—	61,20	156,87	4,33	63,75	.6393
100 + 25	.87150	—	20,68	118,67	2,01	84,27	.8451	100 + 75	.91837	—	62,03	157,66	4,37	63,43	.6361
26	.87284	—	21,50	119,43	2,07	83,73	.8397	76	.91901	—	62,85	158,45	4,40	63,11	.6329
27	.87415	—	22,33	120,20	2,13	83,19	.8343	77	.91963	—	63,68	159,24	4,44	62,80	.6298
28	.87544	—	23,16	120,97	2,19	82,66	.8290	78	.92024	—	64,51	160,04	4,47	62,49	.6267
29	.87671	—	23,98	121,74	2,24	82,14	.8238	79	.92085	—	65,34	160,83	4,51	62,18	.6236
100 + 30	.87796	—	24,81	122,51	2,30	81,63	.8186	100 + 80	.92145	—	66,16	161,62	4,54	61,87	.6205
31	.87919	—	25,64	123,28	2,36	81,12	.8135	81	.92205	—	66,99	162,42	4,57	61,57	.6175
32	.88040	—	26,46	124,05	2,41	80,62	.8084	82	.92264	—	67,82	163,21	4,61	61,27	.6145
33	.88160	—	27,29	124,82	2,47	80,12	.8034	83	.92322	—	68,64	164,00	4,64	60,97	.6115
34	.88277	—	28,12	125,59	2,53	79,63	.7985	84	.92379	—	69,47	164,79	4,68	60,68	.6085
100 + 35	.88393	—	28,95	126,36	2,59	79,14	.7936	100 + 85	.92436	—	70,30	165,59	4,71	60,39	.6056
36	.88507	—	29,77	127,13	2,64	78,66	.7888	86	.92492	—	71,13	166,38	4,75	60,10	.6027
37	.88619	—	30,60	127,90	2,70	78,18	.7840	87	.92547	—	71,95	167,18	4,77	59,82	.5998
38	.88729	—	31,43	128,68	2,75	77,71	.7793	88	.92601	—	72,78	167,97	4,81	59,53	.5970
39	.88838	—	32,25	129,45	2,80	77,25	.7747	89	.92654	—	73,61	168,77	4,84	59,25	.5942
100 + 40	.88945	—	33,08	130,23	2,85	76,79	.7701	100 + 90	.92707	—	74,43	169,56	4,87	58,97	.5914
41	.89051	—	33,91	131,00	2,91	76,33	.7655	91	.92759	—	75,26	170,36	4,90	58,70	.5886
42	.89155	—	34,74	131,77	2,97	75,88	.7610	92	.92811	—	76,09	171,16	4,93	58,43	.5859
43	.89258	—	35,56	132,55	3,01	75,44	.7566	93	.92862	—	76,91	171,96	4,95	58,16	.5832
44	.89359	—	36,39	133,33	3,06	75,00	.7522	94	.92913	—	77,74	172,75	4,99	57,89	.5805
100 + 45	.89458	—	37,22	134,11	3,11	74,57	.7478	100 + 95	.92963	—	78,57	173,55	5,02	57,62	.5779
46	.89556	—	38,04	134,88	3,16	74,14	.7435	96	.93012	—	79,39	174,34	5,05	57,36	.5752
47	.89653	—	38,87	135,66	3,21	73,71	.7392	97	.93062	—	80,21	175,13	5,08	57,10	.5727
48	.89748	—	39,70	136,44	3,26	73,29	.7350	98	.93111	—	81,04	175,92	5,12	56,84	.5701
49	.89841	—	40,52	137,22	3,30	72,88	.7308	99	.93159	—	81,87	176,72	5,15	56,59	.5675

TABLE II.

HEAT 55°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,93208	100	82,70	177,53	5,17	56,33	,5649	100 + 50	,95966	100	165,41	258,64	6,77	38,66	,3877
99	,93257	—	83,55	178,34	5,21	56,07	,5623	49	,96027	—	168,79	262,03	6,76	38,16	,3828
98	,93306	—	84,40	179,17	5,23	55,81	,5597	48	,96088	—	172,30	265,49	6,81	37,66	,3777
97	,93354	—	85,27	180,02	5,25	55,55	,5571	47	,96150	—	175,96	269,13	6,83	37,16	,3726
96	,93403	—	86,16	180,87	5,29	55,29	,5545	46	,96211	—	179,79	272,94	6,85	36,64	,3674
100 + 95	,93452	—	87,06	181,74	5,32	55,03	,5518	100 + 45	,96272	—	183,79	276,92	6,87	36,11	,3622
94	,93500	—	87,98	182,64	5,34	54,76	,5491	44	,96333	—	187,96	281,08	6,88	35,58	,3568
93	,93549	—	88,92	183,55	5,37	54,48	,5464	43	,96393	—	192,33	285,44	6,89	35,03	,3513
92	,93598	—	89,89	184,48	5,41	54,21	,5436	42	,96454	—	196,91	290,01	6,90	34,48	,3458
91	,93647	—	90,88	185,44	5,44	53,93	,5408	41	,96515	—	201,72	294,80	6,92	33,92	,3402
100 + 90	,93696	—	91,89	186,42	5,47	53,64	,5380	100 + 40	,96575	—	206,76	299,85	6,91	33,35	,3345
89	,93746	—	92,92	187,42	5,50	53,35	,5351	39	,96635	—	212,06	305,16	6,90	32,77	,3286
88	,93796	—	93,98	188,44	5,54	53,06	,5322	38	,96696	—	217,64	310,74	6,90	32,18	,3227
87	,93846	—	95,06	189,49	5,57	52,77	,5292	37	,96756	—	223,53	316,64	6,89	31,58	,3167
86	,93897	—	96,17	190,57	5,60	52,47	,5262	36	,96817	—	229,73	322,86	6,87	30,97	,3106
100 + 85	,93948	—	97,30	191,67	5,63	52,17	,5232	100 + 35	,96877	—	236,30	329,41	6,89	30,36	,3044
84	,94000	—	98,45	192,80	5,65	51,87	,5202	34	,96937	—	243,25	336,37	6,88	29,73	,2981
83	,94052	—	99,64	193,95	5,69	51,56	,5171	33	,96998	—	250,62	343,77	6,85	29,09	,2917
82	,94105	—	100,86	195,13	5,73	51,25	,5139	32	,97059	—	258,45	351,63	6,82	28,44	,2852
81	,94159	—	102,10	196,35	5,75	50,93	,5107	31	,97120	—	266,79	359,98	6,81	27,78	,2786
100 + 80	,94213	—	103,38	197,59	5,79	50,61	,5075	100 + 30	,97181	—	275,68	368,92	6,76	27,11	,2718
79	,94267	—	104,69	198,86	5,83	50,29	,5043	29	,97243	—	285,19	378,46	6,73	26,42	,2650
78	,94321	—	106,03	200,17	5,86	49,96	,5010	28	,97306	—	295,37	388,68	6,69	25,73	,2580
77	,94376	—	107,41	201,52	5,89	49,62	,4977	27	,97370	—	306,31	399,66	6,65	25,02	,2509
76	,94431	—	108,82	202,90	5,92	49,29	,4943	26	,97435	—	318,09	411,49	6,60	24,30	,2437
100 + 75	,94486	—	110,27	204,32	5,95	48,94	,4908	100 + 25	,97500	—	330,82	424,29	6,57	23,57	,2364
74	,94542	—	111,76	205,77	5,99	48,60	,4874	24	,97567	—	344,60	438,13	6,53	22,82	,2289
73	,94598	—	113,29	207,27	6,02	48,25	,4839	23	,97635	—	359,58	453,18	6,40	22,06	,2213
72	,94654	—	114,86	208,81	6,05	47,89	,4803	22	,97704	—	375,92	469,59	6,33	21,29	,2135
71	,94710	—	116,48	210,40	6,08	47,53	,4767	21	,97775	—	393,83	487,57	6,26	20,51	,2057
100 + 70	,94767	—	118,15	212,03	6,12	47,16	,4730	100 + 20	,97847	—	413,52	507,34	6,18	19,71	,1977
69	,94824	—	119,86	213,70	6,16	46,79	,4693	19	,97921	—	435,29	529,19	6,10	18,90	,1895
68	,94882	—	121,62	215,43	6,19	46,42	,4655	18	,97997	—	459,47	553,47	6,00	18,07	,1812
67	,94940	—	123,44	217,21	6,23	46,04	,4617	17	,98075	—	486,50	580,60	5,90	17,22	,1727
66	,94998	—	125,31	219,05	6,26	45,65	,4578	16	,98156	—	516,90	611,10	5,80	16,36	,1641
100 + 65	,95057	—	127,24	220,94	6,30	45,26	,4539	100 + 15	,98239	—	551,36	645,68	5,68	15,49	,1553
64	,95116	—	129,22	222,89	6,33	44,86	,4499	14	,98324	—	590,75	685,19	5,56	14,59	,1463
63	,95176	—	131,27	224,90	6,37	44,46	,4459	13	,98413	—	630,19	730,76	5,43	13,68	,1372
62	,95236	—	133,39	226,99	6,40	44,05	,4418	12	,98506	—	680,20	783,92	5,28	12,75	,1279
61	,95296	—	135,58	229,15	6,43	43,64	,4376	11	,98602	—	751,86	846,72	5,14	11,81	,1184
100 + 60	,95357	—	137,84	231,37	6,47	43,22	,4334	100 + 10	,98702	—	827,04	922,04	5,00	10,85	,1088
59	,95418	—	140,17	233,67	6,50	42,79	,4292	9	,98807	—	918,94	1014,12	4,82	9,86	,0989
58	,95479	—	142,58	236,05	6,53	42,36	,4249	8	,98918	—	1033,80	1129,16	4,64	8,85	,0888
57	,95540	—	145,09	238,52	6,57	41,92	,4205	7	,99034	—	1181,49	1277,02	4,47	7,83	,0785
56	,95601	—	147,69	241,09	6,60	41,48	,4160	6	,99156	—	1378,41	1474,11	4,30	6,78	,0680
100 + 55	,95662	—	150,37	243,74	6,63	41,03	,4114	100 + 5	,99284	—	1654,09	1749,99	4,10	5,71	,0573
54	,95723	—	153,13	246,48	6,65	40,57	,4068	4	,99419	—	2067,61	2163,71	3,90	4,62	,0463
53	,95784	—	156,01	249,34	6,67	40,10	,4022	3	,99562	—	2756,81	2853,11	3,70	3,50	,0351
52	,95844	—	159,02	252,32	6,70	39,63	,3975	2	,99712	—	4135,22	4231,71	3,51	2,36	,0237
51	,95905	—	162,15	255,42	6,73	39,15	,3926	1	,99871	—	8270,45	8367,12	3,33	1,19	,0120

TABLE I.

HEAT 56°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82689	100	—	100,00	—	100,00	1,0023	100 + 50	,89887	100	41,33	137,99	3,34	72,47	,7264
1	,82919	—	0,83	100,72	0,11	99,29	,9952	51	,89978	—	42,16	138,77	3,39	72,06	,7223
2	,83145	—	1,65	101,44	0,21	98,58	,9881	52	,90066	—	42,98	139,55	3,43	71,66	,7183
3	,83365	—	2,48	102,16	0,32	97,88	,9811	53	,90153	—	43,80	140,33	3,47	71,26	,7143
4	,83579	—	3,31	102,89	0,42	97,19	,9741	54	,90238	—	44,63	141,11	3,52	70,87	,7103
100 + 5	,83787	—	4,13	103,62	0,51	96,50	,9672	100 + 55	,90323	—	45,46	141,90	3,56	70,47	,7064
6	,83990	—	4,96	104,36	0,60	95,82	,9605	56	,90405	—	46,28	142,68	3,60	70,09	,7025
7	,84188	—	5,79	105,10	0,69	95,15	,9538	57	,90487	—	47,11	143,46	3,65	69,70	,6986
8	,84382	—	6,62	105,84	0,78	94,49	,9471	58	,90567	—	47,94	144,25	3,69	69,32	,6948
9	,84571	—	7,44	106,58	0,86	93,83	,9405	59	,90646	—	48,76	145,03	3,73	68,95	,6910
100 + 10	,84756	—	8,27	107,32	0,95	93,18	,9339	100 + 60	,90724	—	49,59	145,82	3,77	68,58	,6873
11	,84935	—	9,10	108,07	1,03	92,54	,9275	61	,90801	—	50,42	146,61	3,81	68,21	,6836
12	,85111	—	9,92	108,81	1,11	91,90	,9211	62	,90877	—	51,25	147,40	3,85	67,84	,6800
13	,85283	—	10,74	109,56	1,18	91,27	,9148	63	,90953	—	52,07	148,18	3,89	67,48	,6764
14	,85452	—	11,57	110,32	1,25	90,65	,9086	64	,91026	—	52,90	148,97	3,93	67,13	,6728
100 + 15	,85618	—	12,40	111,07	1,33	90,04	,9024	100 + 65	,91103	—	53,73	149,76	3,97	66,77	,6693
16	,85778	—	13,23	111,82	1,41	89,43	,8963	66	,91173	—	54,55	150,55	4,00	66,42	,6658
17	,85938	—	14,05	112,58	1,47	88,83	,8903	67	,91246	—	55,38	151,33	4,05	66,07	,6623
18	,86092	—	14,88	113,33	1,55	88,23	,8844	68	,91318	—	56,21	152,12	4,09	65,73	,6589
19	,86246	—	15,70	114,09	1,61	87,64	,8785	69	,91389	—	57,04	152,91	4,13	65,40	,6555
100 + 20	,86395	—	16,53	114,86	1,67	87,06	,8727	100 + 70	,91459	—	57,86	153,70	4,16	65,00	,6521
21	,86542	—	17,36	115,62	1,74	86,49	,8670	71	,91528	—	58,69	154,48	4,21	64,73	,6488
22	,86686	—	18,19	116,38	1,81	85,93	,8613	72	,91596	—	59,52	155,27	4,25	64,40	,6455
23	,86828	—	19,01	117,14	1,87	85,37	,8557	73	,91663	—	60,34	156,06	4,28	64,07	,6422
24	,86967	—	19,84	117,90	1,94	84,82	,8502	74	,91729	—	61,17	156,85	4,32	63,75	,6390
100 + 25	,87104	—	20,67	118,66	2,01	84,27	,8447	100 + 75	,91794	—	62,00	157,64	4,36	63,43	,6358
26	,87238	—	21,49	119,43	2,06	83,73	,8393	76	,91858	—	62,82	158,43	4,39	63,12	,6326
27	,87369	—	22,32	120,20	2,12	83,19	,8339	77	,91920	—	63,64	159,22	4,42	62,80	,6295
28	,87498	—	23,15	120,96	2,19	82,67	,8286	78	,91982	—	64,47	160,02	4,45	62,49	,6264
29	,87626	—	23,97	121,74	2,23	82,15	,8234	79	,92043	—	65,30	160,81	4,49	62,16	,6233
100 + 30	,87750	—	24,80	122,50	2,30	81,63	,8182	100 + 80	,92102	—	66,12	161,60	4,52	61,88	,6202
31	,87874	—	25,63	123,27	2,36	81,12	,8131	81	,92163	—	66,95	162,40	4,55	61,58	,6172
32	,87994	—	26,45	124,04	2,41	80,62	,8080	82	,92222	—	67,78	163,19	4,59	61,28	,6142
33	,88115	—	27,28	124,81	2,47	80,12	,8030	83	,92280	—	68,60	163,98	4,62	60,98	,6112
34	,88232	—	28,11	125,58	2,53	79,63	,7981	84	,92337	—	69,43	164,77	4,66	60,69	,6083
100 + 35	,88348	—	28,93	126,35	2,58	79,14	,7932	100 + 85	,92393	—	70,26	165,57	4,69	60,40	,6054
36	,88462	—	29,76	127,12	2,64	78,66	,7884	86	,92450	—	71,09	166,36	4,73	60,11	,6025
37	,88574	—	30,58	127,89	2,69	78,19	,7836	87	,92505	—	71,91	167,16	4,75	59,82	,5996
38	,88685	—	31,41	128,67	2,74	77,72	,7789	88	,92559	—	72,74	167,95	4,79	59,54	,5968
39	,88793	—	32,23	129,44	2,79	77,25	,7743	89	,92612	—	73,57	168,75	4,82	59,26	,5940
100 + 40	,88900	—	33,06	130,22	2,84	76,79	,7697	100 + 90	,92666	—	74,39	169,54	4,85	58,98	,5912
41	,89006	—	33,89	130,99	2,90	76,34	,7652	91	,92717	—	75,22	170,33	4,89	58,70	,5884
42	,89110	—	34,72	131,76	2,96	75,89	,7607	92	,92769	—	76,05	171,13	4,92	58,43	,5857
43	,89213	—	35,54	132,54	3,00	75,44	,7563	93	,92821	—	76,87	171,93	4,94	58,16	,5830
44	,89314	—	36,37	133,32	3,05	75,00	,7519	94	,92871	—	77,70	172,73	4,97	57,89	,5803
100 + 45	,89412	—	37,20	134,10	3,10	74,57	,7475	100 + 95	,92922	—	78,53	173,52	5,01	57,63	,5776
46	,89510	—	38,02	134,87	3,15	74,14	,7432	96	,92971	—	79,35	174,31	5,04	57,37	,5750
47	,89608	—	38,85	135,65	3,20	73,72	,7389	97	,93020	—	80,17	175,11	5,06	57,11	,5724
48	,89703	—	39,68	136,43	3,25	73,30	,7347	98	,93069	—	81,00	175,90	5,10	56,85	,5698
49	,89796	—	40,50	137,21	3,29	72,88	,7305	99	,93118	—	81,83	176,70	5,13	56,59	,5672



TABLE II.

HEAT 56°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93166	100	82.66	177.50	5.16	56.33	.5646	100 + 50	.95933	100	165.32	258.58	6.74	38.67	.3876
99	.93215	—	83.50	178.31	5.19	56.08	.5621	49	.95995	—	168.70	261.96	6.74	38.17	.3827
98	.93265	—	84.35	179.14	5.21	55.82	.5595	48	.96057	—	172.21	265.42	6.79	37.67	.3776
97	.93313	—	85.22	179.99	5.23	55.56	.5569	47	.96119	—	175.87	269.06	6.81	37.17	.3725
96	.93362	—	86.11	180.84	5.27	55.30	.5543	46	.96181	—	179.70	272.87	6.83	36.65	.3673
100 + 95	.93411	—	87.01	181.71	5.30	55.03	.5516	100 + 45	.96242	—	183.70	276.85	6.85	36.12	.3620
94	.93460	—	87.93	182.62	5.31	54.76	.5489	44	.96304	—	187.86	281.00	6.86	35.59	.3567
93	.93509	—	88.87	183.52	5.35	54.49	.5462	43	.96364	—	192.23	285.36	6.87	35.04	.3512
92	.93558	—	89.84	184.45	5.39	54.21	.5434	42	.96426	—	196.81	289.93	6.88	34.49	.3457
91	.93607	—	90.83	185.41	5.42	53.93	.5406	41	.96487	—	201.61	294.71	6.90	33.93	.3401
100 + 90	.93656	—	91.84	186.39	5.45	53.65	.5377	100 + 40	.96548	—	206.65	299.76	6.89	33.36	.3344
89	.93706	—	92.87	187.39	5.48	53.36	.5349	39	.96608	—	211.95	305.07	6.88	32.78	.3285
88	.93756	—	93.93	188.41	5.52	53.07	.5320	38	.96670	—	217.53	310.64	6.89	32.19	.3226
87	.93806	—	95.01	189.47	5.54	52.78	.5290	37	.96730	—	223.41	316.55	6.86	31.59	.3166
86	.93857	—	96.12	190.54	5.58	52.48	.5260	36	.96792	—	229.61	322.76	6.85	30.98	.3105
100 + 85	.93909	—	97.25	191.65	5.60	52.18	.5230	100 + 35	.96852	—	236.18	329.31	6.87	30.37	.3044
84	.93960	—	98.40	192.77	5.63	51.88	.5200	34	.96913	—	243.13	336.26	6.87	29.74	.2981
83	.94013	—	99.59	193.92	5.67	51.57	.5169	33	.96975	—	250.49	343.65	6.84	29.10	.2917
82	.94065	—	100.81	195.10	5.71	51.26	.5137	32	.97036	—	258.32	351.51	6.81	28.45	.2852
81	.94120	—	102.05	196.32	5.73	50.94	.5105	31	.97098	—	266.65	359.86	6.79	27.79	.2786
100 + 80	.94174	—	103.32	197.50	5.76	50.61	.5073	100 + 30	.97160	—	275.54	368.79	6.75	27.11	.2718
79	.94228	—	104.63	198.83	5.80	50.29	.5040	29	.97223	—	285.04	378.32	6.72	26.43	.2649
78	.94282	—	105.97	200.14	5.83	49.96	.5008	28	.97286	—	295.22	388.54	6.68	25.74	.2580
77	.94337	—	107.35	201.49	5.86	49.63	.4975	27	.97351	—	306.16	399.51	6.65	25.03	.2509
76	.94392	—	108.76	202.86	5.90	49.30	.4941	26	.97416	—	317.93	411.34	6.59	24.31	.2437
100 + 75	.94448	—	110.21	204.29	5.92	48.95	.4906	100 + 25	.97482	—	330.65	424.12	6.53	23.58	.2363
74	.94504	—	111.70	205.74	5.95	48.60	.4872	24	.97550	—	344.43	437.96	6.47	22.83	.2289
73	.94560	—	113.23	207.24	5.99	48.25	.4837	23	.97618	—	359.40	453.00	6.40	22.07	.2213
72	.94617	—	114.80	208.77	6.03	47.90	.4801	22	.97688	—	375.73	469.40	6.33	21.30	.2135
71	.94672	—	116.42	210.37	6.05	47.54	.4765	21	.97760	—	393.03	487.37	6.26	20.51	.2056
100 + 70	.94729	—	118.09	212.00	6.09	47.17	.4728	100 + 20	.97831	—	413.31	507.13	6.18	19.72	.1976
69	.94787	—	119.80	213.66	6.14	46.80	.4691	19	.97907	—	435.07	528.97	6.10	18.90	.1895
68	.94845	—	121.56	215.39	6.17	46.43	.4654	18	.97983	—	459.24	553.23	6.01	18.07	.1812
67	.94903	—	123.37	217.17	6.20	46.05	.4616	17	.98062	—	486.25	580.3	5.91	17.23	.1727
66	.94962	—	125.24	219.01	6.23	45.66	.4577	16	.98143	—	516.64	610.83	5.81	16.37	.1641
100 + 65	.95020	—	127.17	220.90	6.27	45.27	.4537	100 + 15	.98227	—	551.08	645.39	5.69	15.49	.1553
64	.95080	—	129.15	222.85	6.30	44.87	.4497	14	.98312	—	590.45	684.88	5.57	14.60	.1463
63	.95140	—	131.20	224.86	6.34	44.46	.4457	13	.98402	—	635.87	730.42	5.45	13.69	.1372
62	.95201	—	133.32	226.94	6.38	44.06	.4416	12	.98496	—	688.86	783.55	5.31	12.76	.1279
61	.95261	—	135.51	229.10	6.41	43.65	.4375	11	.98592	—	751.48	846.32	5.16	11.82	.1184
100 + 60	.95322	—	137.77	231.34	6.43	43.23	.4333	100 + 10	.98693	—	826.63	921.60	5.03	10.85	.1087
59	.95383	—	140.10	233.63	6.47	42.80	.4291	9	.98798	—	918.48	1013.63	4.85	9.86	.0989
58	.95445	—	142.51	236.01	6.50	42.37	.4248	8	.98909	—	1033.29	1128.61	4.68	8.86	.0888
57	.95506	—	145.01	238.47	6.54	41.93	.4204	7	.99026	—	1180.90	1276.40	4.50	7.83	.0785
56	.95567	—	147.61	241.03	6.58	41.49	.4159	6	.99148	—	1377.72	1473.38	4.34	6.79	.0680
100 + 55	.95629	—	150.29	243.68	6.61	41.04	.4113	100 + 5	.99276	—	1653.27	1749.13	4.14	5.72	.0573
54	.95690	—	153.05	246.42	6.63	40.58	.4067	4	.99412	—	2066.57	2162.63	3.94	4.62	.0464
53	.95751	—	155.93	249.29	6.64	40.11	.4021	3	.99555	—	2755.42	2851.67	3.75	3.50	.0352
52	.95811	—	158.94	252.26	6.68	39.64	.3974	2	.99705	—	4133.14	4229.57	3.57	2.36	.0237
51	.95873	—	162.07	255.37	6.70	39.16	.3925	1	.99864	—	8266.29	8363.90	3.39	1.20	.0120

TABLE I.

HEAT 57°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82642	100	—	100,00	—	100,00	1,0017	100 + 50	,89842	100	41,31	137,98	3,33	72,48	,7260
1	,82872	—	0,83	100,72	0,11	99,29	,9947	51	,89933	—	42,13	138,76	3,37	72,07	,7219
2	,83098	—	1,65	101,44	0,21	98,58	,9876	52	,90021	—	42,96	139,54	3,42	71,66	,7179
3	,83318	—	2,48	102,16	0,32	97,88	,9806	53	,90108	—	43,78	140,32	3,46	71,26	,7139
4	,83532	—	3,31	102,89	0,42	97,19	,9736	54	,90194	—	44,61	141,10	3,51	70,87	,7100
100 + 5	,83740	—	4,13	103,62	0,51	96,50	,9667	100 + 55	,90279	—	45,44	141,89	3,55	70,48	,7060
6	,83943	—	4,96	104,36	0,60	95,82	,9600	56	,90361	—	46,26	142,67	3,59	70,09	,7021
7	,84141	—	5,78	105,10	0,68	95,16	,9533	57	,90442	—	47,09	143,45	3,64	69,70	,6982
8	,84335	—	6,61	105,84	0,77	94,49	,9466	58	,90523	—	47,91	144,24	3,67	69,32	,6945
9	,84524	—	7,43	106,58	0,85	93,83	,9400	59	,90602	—	48,74	145,02	3,72	68,95	,6907
100 + 10	,84709	—	8,26	107,32	0,94	93,18	,9334	100 + 60	,90681	—	49,57	145,81	3,76	68,59	,6870
11	,84888	—	9,09	108,06	1,03	92,54	,9270	61	,90758	—	50,40	146,60	3,80	68,22	,6833
12	,85064	—	9,91	108,81	1,10	91,90	,9206	62	,90834	—	51,23	147,39	3,84	67,85	,6797
13	,85236	—	10,74	109,56	1,18	91,27	,9143	63	,90910	—	52,05	148,17	3,88	67,49	,6761
14	,85405	—	11,57	110,31	1,26	90,65	,9081	64	,90983	—	52,88	148,96	3,92	67,13	,6724
100 + 15	,85571	—	12,39	111,07	1,32	90,04	,9019	100 + 65	,91056	—	53,70	149,75	3,95	66,78	,6689
16	,85732	—	13,22	111,82	1,40	89,43	,8959	66	,91130	—	54,53	150,54	3,99	66,43	,6655
17	,85891	—	14,04	112,57	1,47	88,83	,8899	67	,91203	—	55,35	151,32	4,03	66,08	,6620
18	,86046	—	14,87	113,33	1,54	88,24	,8839	68	,91275	—	56,18	152,11	4,07	65,74	,6586
19	,86199	—	15,69	114,09	1,60	87,65	,8780	69	,91346	—	57,01	152,90	4,11	65,40	,6552
100 + 20	,86348	—	16,52	114,85	1,67	87,07	,8722	100 + 70	,91416	—	57,83	153,68	4,15	65,07	,6518
21	,86496	—	17,35	115,61	1,74	86,50	,8665	71	,91485	—	58,66	154,47	4,19	64,74	,6485
22	,86640	—	18,18	116,37	1,81	85,93	,8608	72	,91553	—	59,49	155,26	4,23	64,41	,6452
23	,86782	—	19,00	117,13	1,87	85,37	,8552	73	,91620	—	60,31	156,05	4,26	64,08	,6419
24	,86920	—	19,83	117,89	1,94	84,82	,8497	74	,91686	—	61,14	156,84	4,30	63,76	,6387
100 + 25	,87057	—	20,66	118,66	2,00	84,27	,8442	100 + 75	,91751	—	61,96	157,63	4,33	63,44	,6355
26	,87191	—	21,48	119,42	2,06	83,73	,8388	76	,91815	—	62,79	158,42	4,37	63,13	,6323
27	,87323	—	22,31	120,19	2,12	83,20	,8334	77	,91877	—	63,61	159,21	4,40	62,81	,6292
28	,87452	—	23,14	120,96	2,18	82,67	,8281	78	,91940	—	64,44	160,00	4,44	62,50	,6261
29	,87580	—	23,96	121,73	2,23	82,15	,8229	79	,92001	—	65,27	160,79	4,48	62,19	,6230
100 + 30	,87705	—	24,79	122,50	2,29	81,64	,8177	100 + 80	,92059	—	66,09	161,58	4,51	61,89	,6199
31	,87829	—	25,61	123,26	2,35	81,13	,8126	81	,92120	—	66,92	162,38	4,54	61,59	,6169
32	,87949	—	26,44	124,03	2,41	80,63	,8076	82	,92180	—	67,75	163,17	4,58	61,29	,6139
33	,88070	—	27,27	124,80	2,47	80,13	,8026	83	,92237	—	68,57	163,96	4,61	60,99	,6101
34	,88187	—	28,09	125,57	2,52	79,64	,7977	84	,92294	—	69,40	164,75	4,65	60,70	,6081
100 + 35	,88304	—	28,92	126,35	2,57	79,15	,7928	100 + 85	,92351	—	70,23	165,55	4,68	60,41	,6051
36	,88417	—	29,74	127,11	2,63	78,67	,7880	86	,92408	—	71,06	166,34	4,72	60,12	,6022
37	,88530	—	30,57	127,88	2,69	78,19	,7833	87	,92463	—	71,88	167,14	4,74	59,83	,5993
38	,88640	—	31,40	128,66	2,74	77,72	,7786	88	,92517	—	72,71	167,93	4,78	59,55	,5965
39	,88748	—	32,22	129,43	2,79	77,26	,7739	89	,92571	—	73,53	168,73	4,80	59,27	,5937
100 + 40	,88855	—	33,05	130,21	2,84	76,80	,7693	100 + 90	,92625	—	74,36	169,52	4,84	58,99	,5909
41	,88960	—	33,87	130,98	2,89	76,34	,7648	91	,92676	—	75,18	170,31	4,87	58,71	,5881
42	,89065	—	34,70	131,76	2,94	75,89	,7603	92	,92728	—	76,01	171,11	4,90	58,44	,5854
43	,89168	—	35,52	132,53	2,99	75,45	,7559	93	,92780	—	76,83	171,91	4,92	58,17	,5827
44	,89269	—	36,35	133,31	3,04	75,01	,7515	94	,92830	—	77,66	172,70	4,96	57,90	,5800
100 + 45	,89367	—	37,18	134,09	3,09	74,58	,7471	100 + 95	,92881	—	78,49	173,50	4,99	57,63	,5774
46	,89465	—	38,00	134,80	3,14	74,15	,7428	96	,92930	—	79,31	174,29	5,02	57,38	,5748
47	,89563	—	38,83	135,64	3,19	73,72	,7385	97	,92979	—	80,13	175,09	5,04	57,12	,5722
48	,89658	—	39,66	136,42	3,24	73,30	,7343	98	,93028	—	80,96	175,88	5,08	56,86	,5696
49	,89751	—	40,48	137,20	3,28	72,88	,7301	99	,93077	—	81,79	176,68	5,11	56,60	,5670

TABLE II.

HEAT 57°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93125	100	82.62	177.48	5.14	56.34	.5644	100 + 50	.95900	100	165.24	258.52	6.72	38.68	.3875
99	.93174	—	83.46	178.29	5.17	56.08	.5618	49	.95963	—	168.61	261.89	6.72	38.18	.3825
98	.93224	—	84.31	179.12	5.19	55.83	.5592	48	.96025	—	172.12	265.35	6.77	37.68	.3775
97	.93272	—	85.17	179.97	5.20	55.57	.5566	47	.96088	—	175.78	268.99	6.79	37.17	.3724
96	.93321	—	86.07	180.82	5.25	55.31	.5540	46	.96150	—	179.61	272.80	6.81	36.65	.3672
100 + 95	.93370	—	86.97	181.69	5.28	55.04	.5514	100 + 45	.96212	—	183.61	276.78	6.83	36.13	.3619
94	.93419	—	87.89	182.59	5.30	54.77	.5486	44	.96274	—	187.77	280.92	6.85	35.60	.3566
93	.93468	—	88.83	183.50	5.33	54.50	.5459	43	.96335	—	192.13	285.28	6.85	35.05	.3511
92	.93517	—	89.79	184.43	5.36	54.22	.5432	42	.96397	—	196.71	289.84	6.87	34.50	.3456
91	.93566	—	90.78	185.39	5.39	53.94	.5403	41	.96459	—	201.51	294.63	6.88	33.94	.3400
100 + 90	.93616	—	91.79	186.37	5.42	53.65	.5375	100 + 40	.96521	—	206.55	299.68	6.87	33.37	.3343
89	.93665	—	92.83	187.37	5.46	53.37	.5346	39	.96581	—	211.84	304.98	6.86	32.79	.3285
88	.93716	—	93.89	188.39	5.50	53.08	.5317	38	.96643	—	217.42	310.55	6.87	32.20	.3225
87	.93766	—	94.97	189.44	5.53	52.78	.5288	37	.96704	—	223.30	316.45	6.85	31.60	.3165
86	.93817	—	96.07	190.51	5.56	52.48	.5258	36	.96766	—	229.50	322.66	6.84	30.99	.3104
100 + 85	.93869	—	97.20	191.62	5.58	52.18	.5228	100 + 35	.96827	—	236.06	329.21	6.85	30.38	.3043
84	.93921	—	98.35	192.74	5.61	51.89	.5198	34	.96889	—	243.01	336.15	6.86	29.75	.2980
83	.93973	—	99.54	193.89	5.65	51.58	.5167	33	.96951	—	250.36	343.54	6.82	29.11	.2916
82	.94026	—	100.76	195.08	5.68	51.27	.5135	32	.97013	—	258.19	351.39	6.80	28.46	.2851
81	.94081	—	102.00	196.29	5.71	50.95	.5103	31	.97076	—	266.52	359.74	6.78	27.80	.2785
100 + 80	.94135	—	103.27	197.53	5.74	50.62	.5071	100 + 30	.97138	—	275.40	368.66	6.74	27.12	.2717
79	.94190	—	104.58	198.80	5.78	50.30	.5038	29	.97202	—	284.90	378.18	6.72	26.44	.2649
78	.94244	—	105.92	200.10	5.82	49.97	.5006	28	.97266	—	295.07	388.40	6.67	25.75	.2579
77	.94299	—	107.30	201.45	5.85	49.63	.4973	27	.97331	—	306.01	399.37	6.64	25.04	.2508
76	.94354	—	108.71	202.83	5.88	49.30	.4939	26	.97397	—	317.77	411.19	6.58	24.32	.2436
100 + 75	.94410	—	110.16	204.25	5.91	48.96	.4904	100 + 25	.97464	—	330.48	423.96	6.52	23.59	.2363
74	.94466	—	111.64	205.70	5.94	48.61	.4870	24	.97532	—	344.26	437.79	6.47	22.84	.2288
73	.94522	—	113.17	207.20	5.97	48.26	.4835	23	.97601	—	359.22	452.82	6.40	22.08	.2212
72	.94579	—	114.75	208.74	6.01	47.90	.4799	22	.97671	—	375.54	469.21	6.33	21.31	.2135
71	.94635	—	116.36	210.33	6.03	47.55	.4763	21	.97744	—	393.43	487.17	6.26	20.52	.2056
100 + 70	.94691	—	118.03	211.96	6.07	47.18	.4726	100 + 20	.97816	—	413.10	506.92	6.18	19.72	.1976
69	.94750	—	119.74	213.62	6.12	46.81	.4689	19	.97892	—	434.85	528.75	6.10	18.91	.1895
68	.94808	—	121.50	215.35	6.15	46.43	.4652	18	.97969	—	459.01	552.99	6.02	18.08	.1812
67	.94865	—	123.31	217.14	6.17	46.05	.4614	17	.98048	—	486.01	580.09	5.92	17.24	.1727
66	.94925	—	125.18	218.97	6.21	45.66	.4575	16	.98130	—	516.38	610.56	5.82	16.38	.1641
100 + 65	.94984	—	127.10	220.86	6.24	45.28	.4535	100 + 15	.98215	—	550.81	645.10	5.71	15.50	.1553
64	.95044	—	129.09	222.81	6.28	44.88	.4496	14	.98300	—	590.16	684.57	5.59	14.61	.1463
63	.95105	—	131.13	224.82	6.31	44.47	.4456	13	.98390	—	635.55	730.09	5.46	13.69	.1372
62	.95165	—	133.25	226.90	6.35	44.07	.4415	12	.98485	—	688.52	783.19	5.33	12.77	.1279
61	.95225	—	135.45	229.06	6.39	43.66	.4373	11	.98582	—	751.11	845.92	5.19	11.82	.1184
100 + 60	.95287	—	137.70	231.29	6.41	43.24	.4331	100 + 10	.98684	—	826.22	921.16	5.06	10.85	.1087
59	.95348	—	140.03	233.58	6.45	42.81	.4289	9	.98789	—	918.02	1013.14	4.88	9.87	.0989
58	.95410	—	142.44	235.96	6.48	42.38	.4246	8	.98900	—	1032.78	1128.06	4.72	8.86	.0888
57	.95471	—	144.94	238.42	6.52	41.94	.4202	7	.99017	—	1180.31	1275.78	4.53	7.84	.0785
56	.95533	—	147.54	240.97	6.57	41.49	.4157	6	.99140	—	1377.04	1472.66	4.38	6.79	.0680
100 + 55	.95595	—	150.21	243.62	6.59	41.04	.4112	100 + 5	.99268	—	1652.45	1748.27	4.18	5.72	.0573
54	.95656	—	152.98	246.37	6.61	40.58	.4065	4	.99404	—	2065.54	2161.56	3.98	4.63	.0463
53	.95717	—	155.86	249.24	6.62	40.12	.4019	3	.99548	—	2754.04	2850.24	3.80	3.51	.0351
52	.95778	—	158.86	252.20	6.66	39.64	.3972	2	.99698	—	4131.07	4227.44	3.63	2.37	.0237
51	.95840	—	162.00	255.31	6.69	39.16	.3924	1	.99857	—	8262.16	8358.71	3.45	1.20	.0120

TABLE I.

HEAT 58°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.	Spirit and Water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82594	100	—	100,00	—	100,00	1,0011	100 + 50	,89797	100	41,29	137,97	3,32	72,48	,7256
1	,82825	—	0,83	100,72	0,11	99,29	,9941	51	,89888	—	42,11	138,75	3,36	72,07	,7215
2	,83051	—	1,65	101,44	0,21	98,58	,9871	52	,89976	—	42,94	139,53	3,41	71,67	,7176
3	,83271	—	2,48	102,16	0,32	97,88	,9801	53	,90063	—	43,76	140,31	3,45	71,27	,7136
4	,83485	—	3,31	102,89	0,42	97,19	,9731	54	,90149	—	44,59	141,09	3,50	70,88	,7096
100 + 5	,83693	—	4,13	103,63	0,51	96,50	,9662	100 + 55	,90234	—	45,42	141,88	3,54	70,48	,7056
6	,83896	—	4,96	104,36	0,60	95,82	,9595	56	,90317	—	46,24	142,66	3,58	70,10	,7018
7	,84094	—	5,78	105,10	0,68	95,16	,9528	57	,90398	—	47,06	143,44	3,62	69,71	,6979
8	,84289	—	6,61	105,84	0,77	94,49	,9461	58	,90479	—	47,89	144,23	3,66	69,33	,6941
9	,84477	—	7,43	106,58	0,85	93,83	,9395	59	,90558	—	48,71	145,01	3,70	68,90	,6904
100 + 10	,84662	—	8,26	107,32	0,94	93,15	,9329	100 + 60	,90638	—	49,54	145,80	3,74	68,59	,6866
11	,84842	—	9,09	108,06	1,03	92,54	,9265	61	,90714	—	50,37	146,58	3,79	68,22	,6830
12	,85017	—	9,91	108,81	1,10	91,90	,9201	62	,90791	—	51,20	147,37	3,83	67,85	,6794
13	,85189	—	10,73	109,56	1,17	91,27	,9138	63	,90866	—	52,02	148,15	3,87	67,50	,6758
14	,85359	—	11,56	110,31	1,25	90,65	,9076	64	,90940	—	52,85	148,94	3,91	67,14	,6721
100 + 15	,85524	—	12,39	111,06	1,33	90,04	,9014	100 + 65	,91013	—	53,67	149,73	3,94	66,79	,6686
16	,85685	—	13,21	111,82	1,39	89,43	,8954	66	,91087	—	54,50	150,52	3,98	66,44	,6652
17	,85844	—	14,04	112,57	1,47	88,83	,8894	67	,91160	—	55,32	151,30	4,02	66,09	,6617
18	,85999	—	14,87	113,33	1,54	88,24	,8835	68	,91232	—	56,15	152,09	4,06	65,75	,6583
19	,86152	—	15,68	114,09	1,59	87,65	,8776	69	,91303	—	56,98	152,88	4,10	65,41	,6549
100 + 20	,86302	—	16,51	114,85	1,66	87,07	,8717	100 + 70	,91373	—	57,80	153,67	4,13	65,08	,6515
21	,86449	—	17,34	115,61	1,73	86,50	,8660	71	,91442	—	58,63	154,45	4,18	64,75	,6482
22	,86593	—	18,17	116,37	1,80	85,93	,8604	72	,91510	—	59,46	155,24	4,22	64,42	,6449
23	,86735	—	18,99	117,13	1,86	85,37	,8548	73	,91577	—	60,28	156,03	4,25	64,09	,6416
24	,86874	—	19,82	117,89	1,93	84,82	,8493	74	,91643	—	61,11	156,82	4,29	63,77	,6384
100 + 25	,87011	—	20,64	118,65	1,99	84,27	,8438	100 + 75	,91708	—	61,93	157,61	4,32	63,45	,6352
26	,87145	—	21,47	119,42	2,05	83,73	,8384	76	,91772	—	62,76	158,40	4,36	63,13	,6320
27	,87276	—	22,30	120,19	2,11	83,20	,8330	77	,91834	—	63,58	159,19	4,39	62,82	,6289
28	,87406	—	23,13	120,95	2,18	82,67	,8277	78	,91897	—	64,41	159,99	4,42	62,51	,6258
29	,87534	—	23,94	121,73	2,21	82,15	,8225	79	,91958	—	65,23	160,77	4,46	62,20	,6227
100 + 30	,87659	—	24,78	122,49	2,29	81,64	,8173	100 + 80	,92017	—	66,06	161,56	4,50	61,90	,6196
31	,87784	—	25,60	123,26	2,34	81,13	,8122	81	,92078	—	66,88	162,36	4,52	61,59	,6167
32	,87904	—	26,42	124,03	2,39	80,63	,8072	82	,92137	—	67,71	163,15	4,56	61,29	,6136
33	,88025	—	27,25	124,80	2,45	80,13	,8022	83	,92195	—	68,53	163,94	4,59	60,99	,6107
34	,88143	—	28,08	125,57	2,51	79,64	,7973	84	,92252	—	69,36	164,74	4,62	60,71	,6078
100 + 35	,88259	—	28,91	126,34	2,57	79,15	,7924	100 + 85	,92309	—	70,19	165,53	4,66	60,41	,6048
36	,88373	—	29,73	127,10	2,63	78,67	,7876	86	,92366	—	71,02	166,32	4,70	60,12	,6019
37	,88485	—	30,55	127,88	2,67	78,20	,7829	87	,92421	—	71,84	167,12	4,72	59,84	,5990
38	,88595	—	31,38	128,66	2,72	77,73	,7782	88	,92475	—	72,67	167,91	4,76	59,56	,5962
39	,88703	—	32,20	129,42	2,78	77,26	,7735	89	,92529	—	73,49	168,71	4,78	59,27	,5935
100 + 40	,88810	—	33,03	130,21	2,82	76,80	,7689	100 + 90	,92583	—	74,32	169,50	4,82	58,99	,5906
41	,88915	—	33,86	130,97	2,89	76,35	,7644	91	,92635	—	75,14	170,29	4,85	58,72	,5878
42	,89020	—	34,69	131,75	2,94	75,90	,7599	92	,92687	—	75,97	171,09	4,88	58,45	,5851
43	,89123	—	35,51	132,52	2,99	75,45	,7555	93	,92739	—	76,79	171,88	4,91	58,18	,5825
44	,89224	—	36,34	133,31	3,03	75,01	,7511	94	,92789	—	77,62	172,68	4,94	57,91	,5798
100 + 45	,89322	—	37,16	134,08	3,08	74,58	,7467	100 + 95	,92840	—	78,45	173,47	4,98	57,64	,5771
46	,89420	—	37,98	134,85	3,13	74,15	,7424	96	,92889	—	79,27	174,27	5,00	57,38	,5745
47	,89518	—	38,81	135,63	3,18	73,73	,7382	97	,92938	—	80,09	175,07	5,02	57,12	,5719
48	,89613	—	39,64	136,41	3,23	73,31	,7340	98	,92987	—	80,92	175,86	5,06	56,86	,5693
49	,89706	—	40,46	137,19	3,27	72,89	,7297	99	,93036	—	81,75	176,66	5,09	56,61	,5667

TABLE II.

HEAT 58°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and Spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and Spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93084	100	82.58	177.45	5.13	56.35	.5641	100 + 50	.95868	100	165.16	258.46	6.70	38.69	.3873
99	.93133	—	83.42	178.26	5.16	56.09	.5616	49	.95931	—	168.53	261.82	6.71	38.19	.3824
98	.93183	—	84.27	179.09	5.18	55.84	.5590	48	.95994	—	172.03	265.28	6.75	37.69	.3774
97	.93231	—	85.12	179.94	5.18	55.57	.5564	47	.96057	—	175.69	268.92	6.77	37.18	.3723
96	.93280	—	86.02	180.79	5.23	55.31	.5538	46	.96120	—	179.52	272.73	6.79	36.66	.3671
100 + 95	.93329	—	86.92	181.66	5.26	55.05	.5512	100 + 45	.96182	—	183.52	276.71	6.81	36.14	.3618
94	.93378	—	87.84	182.56	5.28	54.78	.5484	44	.96244	—	187.68	280.85	6.83	35.61	.3565
93	.93427	—	88.79	183.47	5.32	54.50	.5457	43	.96306	—	192.04	285.20	6.84	35.06	.3510
92	.93476	—	89.75	184.40	5.35	54.22	.5429	42	.96368	—	196.61	289.76	6.85	34.51	.3455
91	.93525	—	90.74	185.36	5.38	53.95	.5401	41	.96431	—	201.41	294.54	6.87	33.95	.3399
100 + 90	.93575	—	91.75	186.34	5.41	53.66	.5373	100 + 40	.96493	—	206.45	299.59	6.86	33.38	.3342
89	.93625	—	92.78	187.34	5.44	53.38	.5344	39	.96554	—	211.74	304.89	6.85	32.80	.3284
88	.93676	—	93.84	188.36	5.48	53.09	.5315	38	.96616	—	217.31	310.46	6.85	32.21	.3225
87	.93726	—	94.92	189.41	5.51	52.79	.5286	37	.96678	—	223.19	316.35	6.84	31.61	.3165
86	.93777	—	96.02	190.48	5.54	52.49	.5256	36	.96740	—	229.39	322.56	6.83	31.00	.3104
100 + 85	.93829	—	97.15	191.59	5.56	52.19	.5226	100 + 35	.96802	—	235.94	329.10	6.84	30.39	.3042
84	.93881	—	98.30	192.71	5.59	51.89	.5196	34	.96865	—	242.89	336.04	6.85	29.76	.2979
83	.93934	—	99.49	193.86	5.63	51.59	.5165	33	.96927	—	250.24	343.43	6.81	29.12	.2915
82	.93987	—	100.71	195.05	5.66	51.28	.5133	32	.96990	—	258.06	351.27	6.79	28.47	.2850
81	.94042	—	101.95	196.26	5.69	50.95	.5101	31	.97054	—	266.39	359.62	6.77	27.81	.2784
100 + 80	.94096	—	103.22	197.50	5.72	50.63	.5069	100 + 30	.97116	—	275.26	368.54	6.72	27.13	.2716
79	.94151	—	104.53	198.77	5.76	50.31	.5036	29	.97181	—	284.76	378.05	6.71	26.45	.2648
78	.94205	—	105.87	200.07	5.80	49.98	.5004	28	.97246	—	294.93	388.26	6.67	25.76	.2578
77	.94261	—	107.24	201.42	5.82	49.64	.4971	27	.97312	—	305.86	399.23	6.63	25.05	.2508
76	.94316	—	108.65	202.79	5.86	49.31	.4937	26	.97378	—	317.62	411.04	6.58	24.33	.2436
100 + 75	.94372	—	110.10	204.22	5.88	48.97	.4902	100 + 25	.97446	—	330.32	423.80	6.52	23.60	.2362
74	.94428	—	111.59	205.67	5.92	48.62	.4868	24	.97514	—	344.09	437.62	6.47	22.85	.2287
73	.94484	—	113.11	207.17	5.94	48.27	.4833	23	.97584	—	359.04	452.65	6.39	22.09	.2212
72	.94541	—	114.69	208.71	5.98	47.91	.4797	22	.97655	—	375.36	469.02	6.34	21.32	.2134
71	.94597	—	116.30	210.30	6.00	47.56	.4761	21	.97728	—	393.24	486.97	6.27	20.53	.2056
100 + 70	.94653	—	117.97	211.92	6.05	47.19	.4724	100 + 20	.97801	—	412.90	506.71	6.19	19.73	.1976
69	.94712	—	119.68	213.59	6.09	46.81	.4687	19	.97877	—	434.63	528.53	6.10	18.92	.1894
68	.94771	—	121.44	215.31	6.13	46.44	.4650	18	.97955	—	458.78	552.75	6.03	18.09	.1811
67	.94828	—	123.25	217.10	6.15	46.07	.4612	17	.98034	—	485.77	579.84	5.93	17.25	.1726
66	.94889	—	125.12	218.93	6.19	45.67	.4573	16	.98117	—	516.12	610.29	5.83	16.39	.1640
100 + 65	.94948	—	127.04	220.82	6.22	45.28	.4534	100 + 15	.98202	—	550.54	644.81	5.73	15.51	.1553
64	.95008	—	129.02	222.77	6.25	44.89	.4494	14	.98288	—	589.87	684.26	5.61	14.62	.1463
63	.95069	—	131.07	224.78	6.29	44.48	.4454	13	.98379	—	635.22	729.76	5.46	13.70	.1372
62	.95129	—	133.18	226.86	6.32	44.08	.4413	12	.98474	—	688.18	782.83	5.35	12.77	.1279
61	.95190	—	135.38	229.02	6.36	43.66	.4371	11	.98572	—	750.74	845.52	5.22	11.83	.1184
100 + 60	.95252	—	137.63	231.24	6.39	43.25	.4330	100 + 10	.98674	—	825.81	920.73	5.08	10.86	.1087
59	.95313	—	139.96	233.54	6.42	42.82	.4287	9	.98780	—	917.57	1012.66	4.91	9.87	.0989
58	.95376	—	142.37	235.91	6.46	42.39	.4244	8	.98891	—	1032.27	1127.52	4.75	8.87	.0888
57	.95437	—	144.87	238.38	6.49	41.95	.4200	7	.99008	—	1179.73	1275.16	4.57	7.84	.0785
56	.95499	—	147.46	240.92	6.54	41.50	.4155	6	.99132	—	1376.36	1471.94	4.42	6.79	.0680
100 + 55	.95561	—	150.14	243.57	6.57	41.05	.4110	100 + 5	.99260	—	1651.63	1747.41	4.22	5.72	.0573
54	.95622	—	152.91	246.32	6.59	40.59	.4064	4	.99396	—	2064.51	2160.49	4.02	4.63	.0463
53	.95684	—	155.79	249.19	6.60	40.13	.4018	3	.99540	—	2752.68	2848.83	3.85	3.51	.0351
52	.95745	—	158.79	252.15	6.64	39.65	.3970	2	.99691	—	4129.03	4225.35	3.68	2.37	.0237
51	.95807	—	161.92	255.25	6.67	39.17	.3922	1	.99850	—	8258.07	8354.57	3.50	1.20	.0120



TABLE I.

HEAT 59°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82547	100	—	100,00	—	100,00	1,0006	100 + 50	,89752	100	41,27	137,96	3,31	72,49	,7253
1	,82778	—	0,83	100,72	0,11	99,29	,9935	51	,89843	—	42,09	138,74	3,35	72,08	,7212
2	,83004	—	1,65	101,44	0,21	98,58	,9865	52	,89931	—	42,92	139,52	3,40	71,67	,7172
3	,83124	—	2,48	102,16	0,32	97,88	,9795	53	,90018	—	43,74	140,30	3,44	71,27	,7132
4	,83438	—	3,30	102,89	0,41	97,19	,9725	54	,90104	—	44,57	141,08	3,49	70,88	,7093
100 + 5	,83646	—	4,12	103,62	0,50	96,50	,9656	100 + 55	,90189	—	45,40	141,87	3,53	70,49	,7053
6	,83849	—	4,95	104,35	0,60	95,82	,9589	56	,90272	—	46,22	142,65	3,57	70,10	,7014
7	,84048	—	5,78	105,10	0,68	95,16	,9522	57	,90354	—	47,04	143,43	3,61	69,71	,6976
8	,84242	—	6,61	105,83	0,78	94,49	,9456	58	,90435	—	47,87	144,22	3,65	69,33	,6938
9	,84430	—	7,43	106,57	0,86	93,83	,9390	59	,90514	—	48,69	145,00	3,69	68,96	,6901
100 + 10	,84615	—	8,26	107,31	0,95	93,19	,9324	100 + 60	,90595	—	49,52	145,79	3,73	68,60	,6863
11	,84795	—	9,08	108,06	1,02	92,55	,9260	61	,90670	—	50,34	146,57	3,77	68,23	,6827
12	,84970	—	9,90	108,80	1,10	91,91	,9196	62	,90747	—	51,17	147,36	3,81	67,86	,6791
13	,85143	—	10,73	109,55	1,18	91,27	,9133	63	,90822	—	51,99	148,14	3,85	67,50	,6755
14	,85312	—	11,55	110,31	1,24	90,66	,9071	64	,90897	—	52,82	148,93	3,89	67,14	,6718
100 + 15	,85477	—	12,38	111,06	1,32	90,04	,9009	100 + 65	,90970	—	53,64	149,72	3,92	66,79	,6683
16	,85639	—	13,21	111,81	1,40	89,44	,8949	66	,91044	—	54,47	150,51	3,96	66,44	,6649
17	,85797	—	14,03	112,57	1,46	88,84	,8889	67	,91117	—	55,29	151,29	4,00	66,09	,6614
18	,85953	—	14,86	113,32	1,54	88,24	,8830	68	,91189	—	56,12	152,08	4,04	65,75	,6580
19	,86105	—	15,68	114,08	1,60	87,65	,8771	69	,91260	—	56,95	152,86	4,09	65,41	,6546
100 + 20	,86256	—	16,51	114,85	1,66	87,07	,8713	100 + 70	,91330	—	57,77	153,65	4,12	65,08	,6512
21	,86402	—	17,33	115,61	1,72	86,50	,8656	71	,91399	—	58,60	154,44	4,16	64,75	,6479
22	,86547	—	18,16	116,36	1,80	85,94	,8599	72	,91467	—	59,43	155,22	4,21	64,42	,6446
23	,86688	—	18,98	117,12	1,86	85,38	,8543	73	,91534	—	60,25	156,02	4,23	64,09	,6413
24	,86827	—	19,81	117,88	1,93	84,83	,8488	74	,91600	—	61,08	156,80	4,28	63,77	,6381
100 + 25	,86964	—	20,63	118,65	1,98	84,28	,8433	100 + 75	,91665	—	61,90	157,59	4,31	63,45	,6349
26	,87098	—	21,46	119,41	2,05	83,74	,8379	76	,91729	—	62,73	158,38	4,35	63,14	,6317
27	,87229	—	22,28	120,18	2,10	83,21	,8326	77	,91791	—	63,55	159,18	4,37	62,82	,6286
28	,87360	—	23,12	120,95	2,17	82,68	,8273	78	,91854	—	64,38	159,97	4,41	62,51	,6255
29	,87488	—	23,93	121,72	2,21	82,16	,8221	79	,91915	—	65,20	160,75	4,45	62,20	,6224
100 + 30	,87614	—	24,76	122,49	2,27	81,65	,8169	100 + 80	,91975	—	66,03	161,54	4,49	61,90	,6194
31	,87738	—	25,58	123,25	2,33	81,14	,8118	81	,92036	—	66,85	162,34	4,51	61,60	,6164
32	,87859	—	26,41	124,02	2,39	80,64	,8068	82	,92095	—	67,68	163,13	4,55	61,30	,6134
33	,87980	—	27,24	124,79	2,45	80,14	,8018	83	,92152	—	68,50	163,92	4,58	61,00	,6104
34	,88098	—	28,06	125,56	2,50	79,64	,7969	84	,92210	—	69,33	164,72	4,61	60,71	,6075
100 + 35	,88214	—	28,89	126,33	2,56	79,16	,7920	100 + 85	,92267	—	70,15	165,51	4,64	60,42	,6045
36	,88328	—	29,71	127,10	2,61	78,68	,7872	86	,92324	—	70,98	166,30	4,68	60,13	,6017
37	,88440	—	30,54	127,87	2,67	78,20	,7825	87	,92379	—	71,81	167,10	4,71	59,84	,5988
38	,88550	—	31,37	128,65	2,72	77,73	,7778	88	,92433	—	72,63	167,89	4,74	59,56	,5960
39	,88658	—	32,19	129,42	2,77	77,27	,7731	89	,92487	—	73,45	168,69	4,76	59,28	,5932
100 + 40	,88765	—	33,02	130,20	2,82	76,81	,7685	100 + 90	,92541	—	74,28	169,48	4,80	59,00	,5904
41	,88870	—	33,84	130,97	2,87	76,35	,7640	91	,92594	—	75,10	170,27	4,83	58,72	,5876
42	,88975	—	34,67	131,75	2,92	75,90	,7595	92	,92646	—	75,93	171,07	4,86	58,45	,5849
43	,89078	—	35,49	132,52	2,97	75,46	,7551	93	,92698	—	76,75	171,86	4,89	58,18	,5822
44	,89179	—	36,32	133,30	3,02	75,02	,7507	94	,92748	—	77,58	172,66	4,92	57,91	,5795
100 + 45	,89277	—	37,14	134,07	3,07	74,59	,7463	100 + 95	,92799	—	78,41	173,45	4,96	57,65	,5768
46	,89375	—	37,96	134,85	3,11	74,16	,7420	96	,92848	—	79,23	174,25	4,98	57,39	,5742
47	,89473	—	38,79	135,62	3,17	73,73	,7378	97	,92897	—	80,05	175,05	5,00	57,13	,5716
48	,89568	—	39,62	136,40	3,22	73,31	,7336	98	,92946	—	80,88	175,84	5,04	56,87	,5691
49	,89661	—	40,44	137,18	3,26	72,90	,7294	99	,92995	—	81,71	176,64	5,07	56,61	,5665

TABLE II.

HEAT 59°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,93043	100	82,54	177,43	5,11	56,35	,5639	100 + 50	,95836	100	165,08	258,40	6,68	38,70	,3872
99	,93092	—	83,38	178,24	5,14	56,10	,5613	49	,95899	—	168,45	261,75	6,70	38,20	,3823
98	,93142	—	84,23	179,07	5,16	55,84	,5587	48	,95963	—	171,95	265,22	6,73	37,70	,3773
97	,93190	—	85,07	179,91	5,16	55,58	,5562	47	,96026	—	175,61	268,86	6,75	37,19	,3722
96	,93239	—	85,98	180,77	5,21	55,32	,5535	46	,96089	—	179,43	272,66	6,77	36,67	,3670
100 + 95	,93288	—	86,88	181,64	5,24	55,05	,5509	100 + 45	,96152	—	183,43	276,04	6,79	36,15	,3617
94	,93337	—	87,80	182,53	5,27	54,78	,5481	44	,96215	—	187,59	280,77	6,82	35,62	,3564
93	,93386	—	88,75	183,44	5,31	54,51	,5454	43	,96277	—	191,95	285,12	6,83	35,07	,3509
92	,93435	—	89,71	184,37	5,34	54,23	,5427	42	,96340	—	196,52	289,68	6,84	34,52	,3454
91	,93484	—	90,70	185,34	5,36	53,95	,5398	41	,96403	—	201,31	294,46	6,85	33,96	,3398
100 + 90	,93534	—	91,71	186,32	5,39	53,67	,5370	100 + 40	,96465	—	206,35	299,51	6,84	33,39	,3341
89	,93585	—	92,74	187,31	5,43	53,39	,5342	39	,96527	—	211,64	304,80	6,84	32,81	,3283
88	,93636	—	93,79	188,34	5,45	53,10	,5313	38	,96590	—	217,20	310,37	6,83	32,22	,3224
87	,93686	—	94,87	189,38	5,49	52,80	,5284	37	,96652	—	223,08	316,25	6,83	31,62	,3164
86	,93737	—	95,97	190,45	5,52	52,50	,5254	36	,96715	—	229,28	322,46	6,82	31,01	,3103
100 + 85	,93789	—	97,10	191,56	5,54	52,20	,5223	100 + 35	,96777	—	235,82	329,00	6,82	30,40	,3041
84	,93842	—	98,25	192,68	5,57	51,90	,5193	34	,96841	—	242,77	335,94	6,83	29,77	,2978
83	,93895	—	99,44	193,83	5,61	51,60	,5163	33	,96904	—	250,12	343,32	6,80	29,13	,2914
82	,93948	—	100,66	195,02	5,64	51,29	,5131	32	,96967	—	257,93	351,15	6,78	28,48	,2850
81	,94003	—	101,90	196,23	5,67	50,96	,5099	31	,97032	—	266,26	359,50	6,76	27,82	,2784
100 + 80	,94057	—	103,17	197,47	5,70	50,64	,5067	100 + 30	,97095	—	275,13	368,41	6,72	27,14	,2716
79	,94112	—	104,48	198,74	5,74	50,32	,5034	29	,97160	—	284,62	377,92	6,70	26,46	,2648
78	,94167	—	105,82	200,04	5,78	49,99	,5002	28	,97226	—	294,79	388,12	6,67	25,77	,2578
77	,94223	—	107,19	201,39	5,80	49,65	,4969	27	,97293	—	305,71	399,09	6,62	25,06	,2507
76	,94278	—	108,60	202,76	5,84	49,32	,4935	26	,97359	—	317,47	410,89	6,58	24,34	,2435
100 + 75	,94334	—	110,05	204,19	5,86	48,98	,4900	100 + 25	,97428	—	330,16	423,64	6,52	23,61	,2362
74	,94390	—	111,53	205,64	5,89	48,63	,4866	24	,97497	—	343,92	437,45	6,47	22,86	,2287
73	,94446	—	113,05	207,13	5,92	48,28	,4831	23	,97567	—	358,87	452,48	6,39	22,10	,2211
72	,94503	—	114,64	208,68	5,96	47,92	,4795	22	,97639	—	375,18	468,83	6,35	21,33	,2134
71	,94560	—	116,25	210,26	5,99	47,56	,4760	21	,97712	—	393,05	486,77	6,28	20,54	,2055
100 + 70	,94616	—	117,91	211,88	6,03	47,19	,4722	100 + 20	,97786	—	412,70	506,50	6,20	19,74	,1975
69	,94674	—	119,62	213,55	6,07	46,82	,4685	19	,97863	—	434,42	528,31	6,11	18,93	,1894
68	,94734	—	121,38	215,27	6,11	46,45	,4648	18	,97941	—	458,55	552,52	6,03	18,10	,1811
67	,94791	—	123,19	217,06	6,13	46,08	,4610	17	,98020	—	485,53	579,59	5,94	17,26	,1726
66	,94853	—	125,06	218,89	6,17	45,68	,4571	16	,98104	—	515,87	610,02	5,85	16,40	,1640
100 + 65	,94912	—	126,98	220,78	6,20	45,30	,4532	100 + 15	,98189	—	550,27	644,53	5,74	15,52	,1552
64	,94971	—	128,96	222,73	6,23	44,90	,4492	14	,98276	—	589,58	683,96	5,62	14,62	,1463
63	,95033	—	131,01	224,74	6,27	44,49	,4452	13	,98368	—	634,91	729,43	5,48	13,71	,1372
62	,95094	—	133,12	226,82	6,30	44,09	,4412	12	,98463	—	687,84	782,47	5,37	12,78	,1279
61	,95155	—	135,31	228,97	6,34	43,67	,4370	11	,98562	—	750,37	845,13	5,24	11,84	,1184
100 + 60	,95216	—	137,56	231,19	6,37	43,26	,4328	100 + 10	,98664	—	825,40	920,30	5,10	10,86	,1087
59	,95278	—	139,89	233,49	6,40	42,83	,4285	9	,98771	—	917,12	1012,18	4,94	9,88	,0988
58	,95341	—	142,30	235,86	6,44	42,40	,4243	8	,98882	—	1031,76	1126,98	4,78	8,87	,0888
57	,95403	—	144,80	238,33	6,47	41,96	,4199	7	,99000	—	1179,15	1274,54	4,61	7,84	,0785
56	,95465	—	147,39	240,87	6,52	41,51	,4154	6	,99124	—	1375,68	1471,23	4,45	6,80	,0680
100 + 55	,95527	—	150,07	243,52	6,55	41,06	,4109	100 + 5	,99252	—	1650,81	1746,55	4,26	5,72	,0573
54	,95589	—	152,84	246,27	6,57	40,60	,4063	4	,99388	—	2063,50	2159,43	4,07	4,63	,0463
53	,95651	—	155,72	249,13	6,59	40,14	,4017	3	,99532	—	2751,34	2847,43	3,91	3,51	,0351
52	,95712	—	158,72	252,10	6,62	39,66	,3969	2	,99683	—	4127,00	4223,27	3,73	2,37	,0237
51	,95774	—	161,84	255,19	6,65	39,18	,3921	1	,99842	—	8254,02	8350,45	3,57	1,20	,0120

X x 2

TABLE I.

HEAT 60°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82500	100	—	100,00	—	100,00	1,0000	100 + 50	,89707	100	41,25	137,95	3,30	72,49	,7249
1	,82731	—	0,83	100,72	0,11	99,29	,9929	51	,89797	—	42,07	138,73	3,34	72,08	,7208
2	,82957	—	1,65	101,44	0,21	98,58	,9858	52	,89886	—	42,90	139,51	3,39	71,68	,7168
3	,83177	—	2,47	102,16	0,31	97,88	,9789	53	,89973	—	43,72	140,29	3,43	71,28	,7128
4	,83391	—	3,30	102,89	0,41	97,19	,9719	54	,90059	—	44,55	141,07	3,48	70,89	,7089
100 + 5	,83599	—	4,12	103,62	0,50	96,51	,9651	100 + 55	,90144	—	45,38	141,86	3,52	70,49	,7049
6	,83802	—	4,95	104,35	0,60	95,83	,9583	56	,90227	—	46,20	142,64	3,56	70,11	,7011
7	,84001	—	5,77	105,09	0,68	95,16	,9516	57	,90309	—	47,02	143,42	3,60	69,72	,6972
8	,84195	—	6,60	105,83	0,77	94,50	,9450	58	,90391	—	47,85	144,21	3,64	69,34	,6934
9	,84384	—	7,42	106,57	0,85	93,84	,9384	59	,90470	—	48,67	144,99	3,68	68,97	,6897
100 + 10	,84568	—	8,25	107,31	0,94	93,19	,9319	100 + 60	,90549	—	49,50	145,78	3,72	68,60	,6860
11	,84748	—	9,07	108,05	1,02	92,55	,9255	61	,90626	—	50,32	146,56	3,76	68,23	,6823
12	,84924	—	9,90	108,80	1,10	91,91	,9191	62	,90703	—	51,15	147,35	3,80	67,87	,6787
13	,85096	—	10,72	109,55	1,17	91,28	,9128	63	,90778	—	51,97	148,13	3,84	67,51	,6751
14	,85265	—	11,55	110,30	1,25	90,66	,9066	64	,90853	—	52,80	148,92	3,88	67,15	,6715
100 + 15	,85430	—	12,37	111,05	1,32	90,04	,9005	100 + 65	,90927	—	53,62	149,71	3,91	66,80	,6680
16	,85592	—	13,20	111,81	1,39	89,44	,8944	66	,91001	—	54,45	150,50	3,95	66,45	,6645
17	,85750	—	14,02	112,56	1,46	88,84	,8884	67	,91074	—	55,27	151,28	3,99	66,10	,6610
18	,85906	—	14,85	113,32	1,53	88,25	,8825	68	,91146	—	56,10	152,07	4,03	65,76	,6576
19	,86058	—	15,67	114,08	1,59	87,66	,8766	69	,91217	—	56,92	152,85	4,07	65,42	,6542
100 + 20	,86208	—	16,50	114,84	1,66	87,08	,8708	100 + 70	,91287	—	57,75	153,64	4,11	65,09	,6509
21	,86355	—	17,32	115,60	1,72	86,51	,8651	71	,91356	—	58,57	154,42	4,15	64,76	,6476
22	,86500	—	18,15	116,36	1,79	85,94	,8594	72	,91424	—	59,40	155,21	4,19	64,43	,6443
23	,86642	—	18,97	117,12	1,85	85,38	,8538	73	,91491	—	60,22	156,00	4,22	64,10	,6410
24	,86781	—	19,80	117,88	1,92	84,83	,8483	74	,91557	—	61,05	156,79	4,26	63,78	,6378
100 + 25	,86918	—	20,62	118,64	1,98	84,28	,8428	100 + 75	,91622	—	61,87	157,58	4,29	63,46	,6346
26	,87052	—	21,45	119,41	2,04	83,74	,8374	76	,91686	—	62,70	158,37	4,33	63,14	,6314
27	,87183	—	22,27	120,18	2,09	83,21	,8321	77	,91748	—	63,52	159,16	4,36	62,83	,6283
28	,87314	—	23,10	120,94	2,16	82,68	,8268	78	,91811	—	64,35	159,95	4,40	62,52	,6252
29	,87442	—	23,92	121,71	2,21	82,16	,8216	79	,91872	—	65,17	160,74	4,43	62,21	,6221
100 + 30	,87569	—	24,75	122,48	2,27	81,65	,8165	100 + 80	,91933	—	66,00	161,53	4,47	61,91	,6191
31	,87692	—	25,57	123,24	2,33	81,14	,8114	81	,91993	—	66,82	162,32	4,50	61,61	,6161
32	,87814	—	26,40	124,01	2,39	80,64	,8064	82	,92052	—	67,65	163,11	4,54	61,31	,6131
33	,87935	—	27,22	124,78	2,44	80,14	,8014	83	,92110	—	68,47	163,90	4,57	61,01	,6101
34	,88053	—	28,05	125,55	2,50	79,65	,7965	84	,92168	—	69,30	164,70	4,60	60,72	,6072
100 + 35	,88169	—	28,87	126,32	2,55	79,16	,7916	100 + 85	,92225	—	70,12	165,49	4,63	60,43	,6043
36	,88283	—	29,70	127,09	2,61	78,68	,7868	86	,92281	—	70,95	166,29	4,66	60,14	,6014
37	,88395	—	30,52	127,86	2,66	78,21	,7821	87	,92336	—	71,77	167,08	4,69	59,85	,5985
38	,88505	—	31,35	128,64	2,71	77,74	,7774	88	,92391	—	72,60	167,87	4,73	59,57	,5957
39	,88613	—	32,17	129,41	2,76	77,27	,7727	89	,92445	—	73,42	168,66	4,76	59,29	,5929
100 + 40	,88720	—	33,00	130,19	2,81	76,81	,7681	100 + 90	,92499	—	74,25	169,46	4,79	59,01	,5901
41	,88825	—	33,82	130,96	2,86	76,36	,7636	91	,92552	—	75,07	170,25	4,82	58,73	,5873
42	,88929	—	34,65	131,74	2,91	75,91	,7591	92	,92604	—	75,90	171,05	4,85	58,46	,5846
43	,89032	—	35,47	132,51	2,96	75,47	,7547	93	,92656	—	76,72	171,84	4,88	58,19	,5819
44	,89133	—	36,30	133,29	3,01	75,03	,7503	94	,92707	—	77,55	172,64	4,91	57,92	,5792
100 + 45	,89232	—	37,12	134,06	3,06	74,59	,7459	100 + 95	,92758	—	78,37	173,43	4,94	57,66	,5766
46	,89330	—	37,95	134,84	3,11	74,16	,7416	96	,92807	—	79,20	174,23	4,97	57,40	,5740
47	,89427	—	38,77	135,61	3,16	73,74	,7374	97	,92856	—	80,02	175,02	5,00	57,14	,5714
48	,89522	—	39,60	136,39	3,21	73,32	,7332	98	,92905	—	80,85	175,82	5,03	56,88	,5688
49	,89615	—	40,42	137,17	3,25	72,90	,7290	99	,92954	—	81,68	176,62	5,06	56,62	,5662

TABLE II.

HEAT 60°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.93002	100	82,50	177,41	5,09	56,36	.5636	100 + 50	.95804	100	165,00	258,34	6,66	38,71	.3871
99	.93051	—	83,34	178,22	5,12	56,11	.5611	49	.95867	—	168,37	261,68	6,69	38,21	.3821
98	.93100	—	84,19	179,05	5,14	55,85	.5585	48	.95931	—	171,87	265,16	6,71	37,71	.3771
97	.93149	—	85,02	179,89	5,13	55,59	.5559	47	.95995	—	175,53	268,80	6,73	37,20	.3720
96	.93198	—	85,94	180,74	5,20	55,33	.5533	46	.96058	—	179,35	272,59	6,76	36,68	.3668
100 + 95	.93247	—	86,84	181,61	5,23	55,06	.5506	100 + 45	.96122	—	183,34	276,56	6,78	36,10	.3610
94	.93296	—	87,76	182,50	5,26	54,79	.5479	44	.96185	—	187,50	280,70	6,80	35,63	.3563
93	.93345	—	88,71	183,42	5,29	54,52	.5452	43	.96248	—	191,86	285,05	6,81	35,08	.3508
92	.93394	—	89,67	184,35	5,32	54,24	.5424	42	.96311	—	196,43	289,60	6,83	34,53	.3453
91	.93443	—	90,66	185,31	5,35	53,96	.5396	41	.96374	—	201,21	294,38	6,83	33,97	.3397
100 + 90	.93493	—	91,67	186,29	5,38	53,68	.5368	100 + 40	.96437	—	206,25	299,42	6,83	33,40	.3340
89	.93544	—	92,70	187,29	5,41	53,39	.5339	39	.96500	—	211,54	304,71	6,83	32,82	.3282
88	.93595	—	93,75	188,31	5,44	53,10	.5310	38	.96563	—	217,10	310,28	6,82	32,23	.3223
87	.93646	—	94,83	189,35	5,48	52,81	.5281	37	.96626	—	222,97	316,15	6,82	31,63	.3163
86	.93697	—	95,93	190,42	5,51	52,51	.5251	36	.96689	—	229,17	322,36	6,81	31,02	.3102
100 + 85	.93749	—	97,06	191,53	5,53	52,21	.5221	100 + 35	.96752	—	235,71	328,90	6,81	30,40	.3040
84	.93802	—	98,21	192,65	5,56	51,91	.5191	34	.96816	—	242,65	335,84	6,81	29,78	.2978
83	.93855	—	99,39	193,80	5,59	51,60	.5160	33	.96880	—	250,00	343,21	6,79	29,14	.2914
82	.93909	—	100,61	194,99	5,62	51,29	.5129	32	.96944	—	257,81	351,04	6,77	28,49	.2849
81	.93963	—	101,85	196,20	5,65	50,97	.5097	31	.97009	—	266,13	359,38	6,75	27,83	.2783
100 + 80	.94018	—	103,12	197,44	5,68	50,65	.5065	100 + 30	.97074	—	275,00	368,28	6,72	27,15	.2715
79	.94073	—	104,43	198,71	5,72	50,32	.5032	29	.97139	—	284,48	377,79	6,69	26,47	.2647
78	.94128	—	105,77	200,01	5,76	50,00	.5000	28	.97206	—	294,64	387,99	6,65	25,77	.2577
77	.94184	—	107,14	201,35	5,79	49,66	.4966	27	.97273	—	305,56	398,95	6,61	25,07	.2507
76	.94240	—	108,55	202,73	5,82	49,33	.4933	26	.97340	—	317,31	410,74	6,57	24,35	.2435
100 + 75	.94296	—	110,00	204,15	5,85	48,98	.4898	100 + 25	.97410	—	330,00	423,48	6,52	23,61	.2361
74	.94352	—	111,48	205,60	5,88	48,64	.4864	24	.97479	—	343,75	437,29	6,46	22,87	.2287
73	.94408	—	113,01	207,10	5,91	48,29	.4829	23	.97550	—	358,70	452,31	6,39	22,11	.2211
72	.94465	—	114,58	208,64	5,94	47,93	.4793	22	.97622	—	375,00	468,64	6,36	21,34	.2134
71	.94522	—	116,20	210,22	5,98	47,57	.4757	21	.97696	—	392,86	486,58	6,28	20,55	.2055
100 + 70	.94579	—	117,86	211,84	6,02	47,20	.4720	100 + 20	.97771	—	412,50	506,29	6,21	19,75	.1975
69	.94637	—	119,56	213,51	6,05	46,83	.4683	19	.97848	—	434,21	528,08	6,13	18,94	.1894
68	.94696	—	121,32	215,24	6,08	46,46	.4646	18	.97926	—	458,33	552,29	6,04	18,11	.1811
67	.94756	—	123,13	217,02	6,11	46,08	.4608	17	.98006	—	485,29	579,34	5,95	17,26	.1726
66	.94816	—	125,00	218,85	6,15	45,69	.4569	16	.98090	—	515,62	609,76	5,86	16,40	.1640
100 + 65	.94876	—	126,92	220,74	6,18	45,30	.4530	100 + 15	.98176	—	550,00	644,25	5,75	15,52	.1552
64	.94936	—	128,90	222,69	6,21	44,91	.4491	14	.98264	—	589,29	683,66	5,63	14,63	.1463
63	.94997	—	130,95	224,70	6,25	44,50	.4450	13	.98356	—	634,61	729,10	5,51	13,72	.1372
62	.95058	—	133,06	226,78	6,28	44,10	.4410	12	.98452	—	687,50	782,11	5,39	12,79	.1279
61	.95119	—	135,25	228,93	6,32	43,68	.4368	11	.98551	—	750,00	844,74	5,26	11,84	.1184
100 + 60	.95181	—	137,50	231,14	6,36	43,26	.4326	100 + 10	.98654	—	825,00	919,87	5,13	10,87	.1087
59	.95243	—	139,82	233,44	6,38	42,84	.4284	9	.98761	—	916,67	1011,70	4,97	9,88	.0988
58	.95305	—	142,23	235,82	6,41	42,41	.4241	8	.98873	—	1031,25	1126,44	4,81	8,88	.0888
57	.95368	—	144,73	238,28	6,45	41,97	.4197	7	.98991	—	1178,57	1273,92	4,65	7,85	.0785
56	.95430	—	147,32	240,82	6,50	41,52	.4152	6	.99115	—	1375,00	1470,52	4,48	6,80	.0680
100 + 55	.95493	—	150,00	243,47	6,53	41,07	.4107	100 + 5	.99244	—	1650,00	1745,70	4,30	5,73	.0573
54	.95555	—	152,77	246,22	6,55	40,61	.4061	4	.99380	—	2062,50	2158,37	4,13	4,63	.0463
53	.95617	—	155,65	249,08	6,57	40,15	.4015	3	.99524	—	2750,00	2846,04	3,96	3,51	.0351
52	.95679	—	158,65	252,05	6,60	39,67	.3967	2	.99675	—	4125,00	4221,21	3,79	2,37	.0237
51	.95741	—	161,77	255,14	6,63	39,19	.3919	1	.99834	—	8250,00	8346,38	3,62	1,20	.0120

TABLE I.

HEAT 61°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82453	100	—	100,00	—	100,00	,9994	100 + 50	,89662	100	41,23	137,94	3,29	72,50	,7245
1	,82684	—	0,82	100,72	0,10	99,29	,9924	51	,89752	—	42,05	138,72	3,33	72,09	,7205
2	,82910	—	1,65	101,44	0,21	98,58	,9853	52	,89841	—	42,88	139,50	3,38	71,69	,7165
3	,83130	—	2,47	102,16	0,31	97,88	,9784	53	,89928	—	43,70	140,28	3,42	71,28	,7125
4	,83344	—	3,30	102,89	0,41	97,19	,9714	54	,90014	—	44,52	141,06	3,46	70,89	,7086
100 + 5	,83552	—	4,12	103,62	0,50	96,51	,9645	100 + 55	,90100	—	45,35	141,85	3,50	70,50	,7046
6	,83755	—	4,95	104,35	0,60	95,83	,9578	56	,90183	—	46,17	142,62	3,55	70,12	,7007
7	,83954	—	5,77	105,09	0,68	95,16	,9511	57	,90265	—	46,99	143,40	3,59	69,73	,6968
8	,84148	—	6,60	105,83	0,77	94,50	,9445	58	,90347	—	47,82	144,19	3,63	69,35	,6931
9	,84337	—	7,42	106,57	0,85	93,84	,9379	59	,90426	—	48,64	144,97	3,67	68,97	,6893
100 + 10	,84520	—	8,25	107,31	0,94	93,19	,9314	100 + 60	,90504	—	49,47	145,76	3,71	68,60	,6856
11	,84701	—	9,07	108,05	1,02	92,55	,9250	61	,90582	—	50,29	146,54	3,75	68,24	,6820
12	,84877	—	9,90	108,80	1,10	91,91	,9186	62	,90659	—	51,12	147,33	3,79	67,88	,6783
13	,85049	—	10,72	109,55	1,17	91,28	,9123	63	,90734	—	51,94	148,11	3,83	67,52	,6748
14	,85218	—	11,54	110,30	1,24	90,66	,9061	64	,90809	—	52,77	148,90	3,87	67,16	,6712
100 + 15	,85382	—	12,36	111,05	1,31	90,04	,9000	100 + 65	,90883	—	53,59	149,69	3,90	66,80	,6676
16	,85545	—	13,19	111,81	1,38	89,44	,8939	66	,90957	—	54,42	150,48	3,94	66,45	,6642
17	,85703	—	14,02	112,56	1,46	88,84	,8879	67	,91030	—	55,24	151,26	3,98	66,11	,6607
18	,85800	—	14,84	113,32	1,52	88,25	,8820	68	,91102	—	56,07	152,05	4,02	65,76	,6573
19	,86012	—	15,66	114,08	1,58	87,66	,8762	69	,91173	—	56,89	152,83	4,06	65,42	,6539
100 + 20	,86162	—	16,49	114,84	1,65	87,08	,8703	100 + 70	,91242	—	57,72	153,62	4,10	65,09	,6506
21	,86309	—	17,31	115,60	1,71	86,51	,8646	71	,91312	—	58,54	154,41	4,13	64,76	,6473
22	,86454	—	18,14	116,35	1,79	85,94	,8589	72	,91380	—	59,37	155,19	4,18	64,43	,6440
23	,86596	—	18,96	117,11	1,85	85,38	,8534	73	,91447	—	60,19	155,98	4,21	64,10	,6407
24	,86735	—	19,79	117,87	1,92	84,83	,8479	74	,91513	—	61,02	156,77	4,25	63,78	,6375
100 + 25	,86872	—	20,61	118,64	1,97	84,28	,8424	100 + 75	,91578	—	61,84	157,56	4,28	63,47	,6343
26	,87006	—	21,44	119,40	2,04	83,74	,8370	76	,91642	—	62,67	158,35	4,32	63,15	,6311
27	,87137	—	22,26	120,17	2,09	83,21	,8316	77	,91704	—	63,49	159,14	4,35	62,84	,6280
28	,87268	—	23,09	120,94	2,15	82,68	,8264	78	,91767	—	64,32	159,93	4,39	62,52	,6249
29	,87396	—	23,91	121,71	2,20	82,16	,8212	79	,91829	—	65,14	160,72	4,42	62,21	,6218
100 + 30	,87523	—	24,74	122,48	2,26	81,65	,8161	100 + 80	,91890	—	65,96	161,51	4,45	61,91	,6188
31	,87646	—	25,56	123,23	2,33	81,15	,8110	81	,91950	—	66,78	162,30	4,48	61,61	,6158
32	,87768	—	26,39	124,00	2,39	80,64	,8060	82	,92009	—	67,61	163,09	4,52	61,31	,6128
33	,87889	—	27,21	124,78	2,43	80,14	,8010	83	,92067	—	68,43	163,88	4,55	61,01	,6098
34	,88007	—	28,04	125,55	2,49	79,65	,7961	84	,92125	—	69,26	164,68	4,58	60,72	,6069
100 + 35	,88123	—	28,86	126,32	2,54	79,16	,7912	100 + 85	,92182	—	70,08	165,48	4,60	60,43	,6040
36	,88237	—	29,69	127,09	2,60	78,68	,7864	86	,92238	—	70,91	166,27	4,64	60,14	,6011
37	,88349	—	30,51	127,85	2,66	78,21	,7817	87	,92293	—	71,73	167,07	4,66	59,86	,5983
38	,88459	—	31,33	128,63	2,70	77,74	,7770	88	,92348	—	72,56	167,86	4,70	59,58	,5954
39	,88567	—	32,16	129,40	2,76	77,28	,7723	89	,92402	—	73,38	168,64	4,74	59,29	,5926
100 + 40	,88674	—	32,98	130,18	2,80	76,82	,7677	100 + 90	,92455	—	74,21	169,44	4,77	59,01	,5898
41	,88780	—	33,80	130,95	2,85	76,36	,7632	91	,92509	—	75,03	170,24	4,79	58,74	,5871
42	,88884	—	34,63	131,73	2,90	75,91	,7588	92	,92562	—	75,86	171,03	4,83	58,47	,5844
43	,88987	—	35,45	132,50	2,95	75,47	,7544	93	,92614	—	76,68	171,82	4,86	58,20	,5816
44	,89088	—	36,28	133,28	3,00	75,03	,7500	94	,92665	—	77,51	172,62	4,89	57,93	,5789
100 + 45	,89186	—	37,10	134,05	3,05	74,60	,7456	100 + 95	,92716	—	78,33	173,41	4,92	57,66	,5763
46	,89285	—	37,93	134,83	3,10	74,17	,7413	96	,92765	—	79,16	174,20	4,96	57,40	,5738
47	,89382	—	38,75	135,60	3,15	73,74	,7371	97	,92814	—	79,98	175,00	4,98	57,14	,5712
48	,89477	—	39,58	136,38	3,20	73,32	,7329	98	,92864	—	80,81	175,80	5,01	56,88	,5686
49	,89570	—	40,40	137,16	3,24	72,91	,7286	99	,92913	—	81,64	176,59	5,05	56,63	,5660



TABLE II.

HEAT 61°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92961	100	82.46	177.38	5.08	56.37	.5634	100 + 50	.95771	100	164.92	258.28	6.64	38.71	.3869
99	.93010	—	83.29	178.19	5.10	56.11	.5609	49	.95834	—	168.29	261.62	6.67	38.22	.3820
98	.93059	—	84.14	179.02	5.12	55.86	.5583	48	.95898	—	171.78	265.10	6.68	37.72	.3770
97	.93108	—	84.98	179.86	5.12	55.60	.5557	47	.95962	—	175.44	268.73	6.71	37.21	.3719
96	.93157	—	85.89	180.71	5.18	55.33	.5531	46	.96026	—	179.26	272.52	6.74	36.69	.3667
100 + 95	.93206	—	86.79	181.59	5.20	55.07	.5504	100 + 45	.96090	—	183.25	276.49	6.76	36.16	.3615
94	.93255	—	87.72	182.47	5.25	54.80	.5477	44	.96154	—	187.41	280.63	6.78	35.63	.3562
93	.93304	—	88.66	183.40	5.26	54.53	.5450	43	.96217	—	191.76	284.97	6.79	35.08	.3507
92	.93353	—	89.62	184.32	5.30	54.25	.5422	42	.96281	—	196.33	289.52	6.81	34.53	.3452
91	.93402	—	90.61	185.29	5.32	53.97	.5394	41	.96344	—	201.11	294.30	6.81	33.97	.3396
100 + 90	.93452	—	91.62	186.26	5.36	53.69	.5366	100 + 40	.96408	—	206.15	299.34	6.81	33.40	.3339
89	.93503	—	92.65	187.26	5.39	53.40	.5337	39	.96471	—	211.43	304.62	6.81	32.83	.3281
88	.93554	—	93.70	188.28	5.42	53.11	.5308	38	.96535	—	216.99	310.19	6.80	32.24	.3222
87	.93605	—	94.78	189.33	5.45	52.81	.5279	37	.96598	—	222.86	316.06	6.80	31.64	.3162
86	.93657	—	95.88	190.40	5.48	52.52	.5249	36	.96662	—	229.06	322.25	6.81	31.03	.3101
100 + 85	.93709	—	97.01	191.50	5.51	52.22	.5219	100 + 35	.96725	—	235.59	328.79	6.80	30.41	.3040
84	.93762	—	98.16	192.63	5.53	51.91	.5189	34	.96791	—	242.53	335.73	6.80	29.78	.2977
83	.93815	—	99.34	193.78	5.56	51.61	.5158	33	.96855	—	249.88	343.10	6.78	29.14	.2913
82	.93870	—	100.56	194.96	5.60	51.30	.5127	32	.96920	—	257.68	350.93	6.75	28.49	.2848
81	.93924	—	101.80	196.17	5.63	50.98	.5095	31	.96986	—	266.00	359.26	6.74	27.83	.2782
100 + 80	.93979	—	103.07	197.41	5.66	50.66	.5063	100 + 30	.97051	—	274.86	368.16	6.70	27.16	.2715
79	.94034	—	104.38	198.68	5.70	50.33	.5030	29	.97117	—	284.34	377.65	6.69	26.48	.2647
78	.94089	—	105.71	199.97	5.74	50.00	.4998	28	.97185	—	294.50	387.85	6.65	25.78	.2577
77	.94145	—	107.09	201.32	5.77	49.67	.4964	27	.97252	—	305.41	398.80	6.61	25.08	.2507
76	.94201	—	108.49	202.69	5.80	49.33	.4931	26	.97320	—	317.15	410.58	6.57	24.36	.2435
100 + 75	.94257	—	109.94	204.11	5.83	48.99	.4897	100 + 25	.97389	—	329.84	423.32	6.52	23.62	.2361
74	.94313	—	111.42	205.56	5.86	48.65	.4862	24	.97460	—	343.58	437.12	6.46	22.87	.2287
73	.94369	—	112.95	207.06	5.89	48.30	.4827	23	.97532	—	358.52	452.13	6.39	22.12	.2211
72	.94427	—	114.52	208.60	5.92	47.94	.4791	22	.97604	—	374.82	468.45	6.37	21.35	.2134
71	.94484	—	116.13	210.18	5.95	47.58	.4756	21	.97679	—	392.67	486.38	6.29	20.56	.2055
100 + 70	.94540	—	117.80	211.80	6.00	47.21	.4719	100 + 20	.97755	—	412.30	506.08	6.22	19.76	.1975
69	.94599	—	119.50	213.48	6.02	46.84	.4682	19	.97832	—	434.00	527.86	6.14	18.95	.1894
68	.94659	—	121.26	215.20	6.06	46.47	.4645	18	.97911	—	458.11	552.05	6.06	18.11	.1811
67	.94719	—	123.07	216.98	6.09	46.09	.4607	17	.97992	—	485.06	579.09	5.97	17.27	.1726
66	.94779	—	124.94	218.81	6.13	45.70	.4568	16	.98076	—	515.37	609.50	5.87	16.41	.1640
100 + 65	.94839	—	126.86	220.70	6.16	45.31	.4529	100 + 15	.98162	—	549.73	643.97	5.76	15.53	.1552
64	.94899	—	128.83	222.65	6.18	44.91	.4489	14	.98251	—	589.00	683.36	5.64	14.63	.1463
63	.94951	—	130.88	224.66	6.22	44.51	.4449	13	.98343	—	634.30	728.77	5.53	13.72	.1372
62	.95022	—	132.99	226.74	6.25	44.10	.4409	12	.98440	—	687.17	781.76	5.41	12.79	.1279
61	.95083	—	135.18	228.88	6.30	43.69	.4367	11	.98539	—	749.64	844.36	5.28	11.84	.1184
100 + 60	.95145	—	137.43	231.10	6.33	43.27	.4325	100 + 10	.98642	—	824.60	919.45	5.15	10.87	.1087
59	.95207	—	139.75	233.40	6.35	42.85	.4283	9	.98750	—	916.23	1011.23	5.00	9.89	.0988
58	.95270	—	142.16	235.77	6.39	42.41	.4240	8	.98862	—	1030.75	1125.91	4.84	8.88	.0888
57	.95333	—	144.66	238.23	6.43	41.97	.4196	7	.98981	—	1178.00	1273.32	4.68	7.85	.0785
56	.95395	—	147.25	240.77	6.48	41.53	.4151	6	.99105	—	1374.34	1469.82	4.52	6.80	.0680
100 + 55	.95458	—	149.92	243.42	6.50	41.08	.4106	100 + 5	.99234	—	1649.21	1744.86	4.25	5.73	.0573
54	.95521	—	152.69	246.16	6.53	40.62	.4060	4	.99371	—	2061.51	2157.33	4.18	4.63	.0463
53	.95583	—	155.57	249.02	6.55	40.15	.4014	3	.99515	—	2748.67	2844.60	4.01	3.51	.0351
52	.95645	—	158.57	252.00	6.57	39.68	.3966	2	.99666	—	4123.01	4219.16	3.85	2.37	.0237
51	.95707	—	161.69	255.08	6.61	39.20	.3918	1	.99825	—	8246.02	8342.33	3.69	1.20	.0120

TABLE I.

HEAT 62°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82405	100	—	100,00	—	100,00	,9988	100 + 50	,89617	100	41,21	137,93	3,28	72,50	,7242
1	,82637	—	0,82	100,72	0,10	99,29	,9918	51	,89707	—	42,03	138,71	3,32	72,09	,7201
2	,82863	—	1,65	101,44	0,21	98,58	,9848	52	,89796	—	42,86	139,49	3,37	71,69	,7161
3	,83083	—	2,47	102,16	0,31	97,88	,9778	53	,89883	—	43,68	140,27	3,41	71,29	,7121
4	,83297	—	3,30	102,89	0,41	97,19	,9709	54	,89969	—	44,50	141,05	3,45	70,90	,7082
100 + 5	,83504	—	4,12	103,62	0,50	96,51	,9640	100 + 55	,90055	—	45,33	141,83	3,50	70,51	,7042
6	,83708	—	4,95	104,35	0,60	95,83	,9573	56	,90138	—	46,15	142,61	3,54	70,12	,7004
7	,83907	—	5,77	105,09	0,68	95,16	,9506	57	,90221	—	46,97	143,39	3,58	69,73	,6965
8	,84101	—	6,59	105,83	0,76	94,50	,9440	58	,90302	—	47,80	144,18	3,62	69,35	,6928
9	,84290	—	7,42	106,57	0,85	93,84	,9374	59	,90382	—	48,62	144,96	3,66	68,98	,6890
100 + 10	,84473	—	8,24	107,31	0,93	93,19	,9309	100 + 60	,90460	—	49,45	145,75	3,70	68,61	,6853
11	,84654	—	9,06	108,05	1,01	92,55	,9245	61	,90538	—	50,27	146,53	3,74	68,24	,6816
12	,84830	—	9,89	108,80	1,09	91,91	,9181	62	,90615	—	51,10	147,32	3,78	67,88	,6780
13	,85002	—	10,71	109,55	1,16	91,28	,9118	63	,90690	—	51,92	148,10	3,82	67,52	,6745
14	,85171	—	11,54	110,30	1,24	90,66	,9056	64	,90765	—	52,75	148,89	3,86	67,16	,6709
100 + 15	,85335	—	12,36	111,05	1,31	90,04	,8995	100 + 65	,90839	—	53,56	149,68	3,88	66,81	,6673
16	,85498	—	13,18	111,80	1,38	89,44	,8934	66	,90913	—	54,40	150,47	3,93	66,46	,6639
17	,85656	—	14,01	112,56	1,45	88,84	,8874	67	,90986	—	55,21	151,25	3,96	66,11	,6604
18	,85813	—	14,83	113,31	1,52	88,25	,8815	68	,91058	—	56,05	152,04	4,01	65,77	,6570
19	,85965	—	15,65	114,07	1,58	87,66	,8757	69	,91129	—	56,87	152,82	4,05	65,43	,6536
100 + 20	,86115	—	16,48	114,83	1,65	87,08	,8698	100 + 70	,91198	—	57,69	153,61	4,08	65,10	,6503
21	,86263	—	17,30	115,59	1,71	86,51	,8641	71	,91268	—	58,51	154,39	4,12	64,77	,6470
22	,86407	—	18,13	116,35	1,78	85,95	,8585	72	,91336	—	59,34	155,18	4,16	64,44	,6437
23	,86549	—	18,95	117,11	1,84	85,39	,8529	73	,91403	—	60,16	155,97	4,19	64,11	,6404
24	,86689	—	19,78	117,87	1,91	84,84	,8474	74	,91469	—	60,99	156,76	4,23	63,79	,6372
100 + 25	,86825	—	20,60	118,63	1,97	84,29	,8419	100 + 75	,91533	—	61,81	157,55	4,26	63,47	,6340
26	,86960	—	21,43	119,40	2,03	83,75	,8365	76	,91598	—	62,64	158,34	4,30	63,16	,6308
27	,87091	—	22,25	120,17	2,08	83,22	,8312	77	,91660	—	63,46	159,13	4,33	62,84	,6277
28	,87222	—	23,08	120,93	2,15	82,69	,8259	78	,91723	—	64,29	159,92	4,37	62,53	,6246
29	,87350	—	23,90	121,70	2,20	82,17	,8208	79	,91786	—	65,11	160,71	4,40	62,22	,6215
100 + 30	,87476	—	24,73	122,47	2,26	81,65	,8156	100 + 80	,91847	—	65,93	161,50	4,43	61,92	,6185
31	,87600	—	25,55	123,23	2,32	81,15	,8106	81	,91907	—	66,75	162,29	4,46	61,62	,6155
32	,87722	—	26,38	124,00	2,38	80,65	,8055	82	,91966	—	67,58	163,07	4,51	61,32	,6125
33	,87843	—	27,19	124,77	2,42	80,15	,8006	83	,92024	—	68,40	163,87	4,53	61,02	,6095
34	,87961	—	28,02	125,54	2,48	79,65	,7957	84	,92082	—	69,23	164,67	4,56	60,73	,6066
100 + 35	,88076	—	28,85	126,31	2,54	79,17	,7908	100 + 85	,92139	—	70,05	165,46	4,59	60,44	,6037
36	,88191	—	29,67	127,08	2,59	78,69	,7860	86	,92195	—	70,88	166,25	4,63	60,15	,6008
37	,88303	—	30,49	127,85	2,64	78,22	,7813	87	,92250	—	71,70	167,05	4,65	59,87	,5980
38	,88413	—	31,32	128,62	2,70	77,75	,7766	88	,92305	—	72,52	167,84	4,68	59,58	,5951
39	,88521	—	32,14	129,39	2,75	77,28	,7719	89	,92359	—	73,35	168,63	4,72	59,30	,5924
100 + 40	,88628	—	32,97	130,17	2,80	76,82	,7674	100 + 90	,92412	—	74,18	169,43	4,75	59,02	,5896
41	,88734	—	33,79	130,94	2,85	76,37	,7628	91	,92466	—	75,00	170,22	4,78	58,74	,5868
42	,88839	—	34,62	131,72	2,90	75,92	,7584	92	,92519	—	75,83	171,01	4,82	58,47	,5841
43	,88942	—	35,44	132,49	2,95	75,48	,7540	93	,92571	—	76,65	171,81	4,84	58,20	,5814
44	,89043	—	36,26	133,27	2,99	75,04	,7496	94	,92623	—	77,47	172,60	4,87	57,93	,5787
100 + 45	,89141	—	37,09	134,04	3,05	74,60	,7452	100 + 95	,92674	—	78,29	173,39	4,90	57,67	,5761
46	,89240	—	37,91	134,82	3,09	74,17	,7409	96	,92723	—	79,12	174,18	4,94	57,41	,5735
47	,89337	—	38,73	135,59	3,14	73,75	,7367	97	,92772	—	79,94	174,98	4,96	57,15	,5709
48	,89432	—	39,56	136,37	3,19	73,33	,7325	98	,92822	—	80,76	175,77	4,99	56,89	,5683
49	,89525	—	40,38	137,15	3,23	72,91	,7283	99	,92871	—	81,59	176,57	5,02	56,64	,5657

TABLE II.

HEAT 62°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92920	100	82,42	177,36	5,06	56,38	.5631	100 + 50	.95737	100	164,84	258,23	6,61	38,72	.3868
99	.92969	—	83,25	178,17	5,08	56,12	.5606	49	.95800	—	168,21	261,56	6,65	38,23	.3819
98	.93018	—	84,10	179,00	5,10	55,87	.5580	48	.95865	—	171,70	265,04	6,66	37,73	.3769
97	.93066	—	84,94	179,84	5,10	55,60	.5554	47	.95929	—	175,35	268,67	6,68	37,22	.3718
96	.93116	—	85,85	180,69	5,16	55,34	.5528	46	.95993	—	179,17	272,46	6,71	36,70	.3666
100 + 95	.93164	—	86,75	181,56	5,19	55,08	.5501	100 + 45	.96058	—	183,16	276,42	6,74	36,17	.3613
94	.93213	—	87,68	182,45	5,23	54,81	.5474	44	.96122	—	187,32	280,56	6,76	35,64	.3561
93	.93262	—	88,62	183,37	5,25	54,54	.5447	43	.96186	—	191,67	284,90	6,77	35,09	.3506
92	.93311	—	89,58	184,30	5,28	54,26	.5419	42	.96250	—	196,23	289,45	6,78	34,54	.3451
91	.93360	—	90,57	185,26	5,31	53,98	.5391	41	.96313	—	201,01	294,23	6,78	33,98	.3395
100 + 90	.93411	—	91,58	186,24	5,34	53,70	.5363	100 + 40	.96378	—	206,05	299,26	6,79	33,41	.3338
89	.93461	—	92,61	187,24	5,37	53,41	.5335	39	.96442	—	211,33	304,53	6,80	32,84	.3280
88	.93512	—	93,66	188,26	5,40	53,12	.5306	38	.96506	—	216,89	310,10	6,79	32,25	.3221
87	.93564	—	94,74	189,30	5,44	52,82	.5277	37	.96570	—	222,75	315,96	6,79	31,65	.3161
86	.93616	—	95,84	190,37	5,47	52,52	.5247	36	.96635	—	228,95	322,15	6,80	31,04	.3100
100 + 85	.93669	—	96,97	191,47	5,50	52,22	.5217	100 + 35	.96698	—	235,48	328,69	6,79	30,42	.3039
84	.93721	—	98,12	192,60	5,52	51,92	.5187	34	.96765	—	242,41	335,62	6,79	29,79	.2977
83	.93775	—	99,30	193,75	5,55	51,62	.5156	33	.96830	—	249,76	343,00	6,76	29,15	.2913
82	.93830	—	100,51	194,93	5,58	51,31	.5125	32	.96895	—	257,56	350,82	6,74	28,50	.2847
81	.93884	—	101,75	196,13	5,62	50,99	.5093	31	.96962	—	265,87	359,15	6,72	27,84	.2781
100 + 80	.93940	—	103,02	197,37	5,65	50,67	.5061	100 + 30	.97028	—	274,73	368,03	6,70	27,17	.2714
79	.93995	—	104,33	198,64	5,69	50,34	.5028	29	.97095	—	284,20	377,52	6,68	26,49	.2646
78	.94050	—	105,66	199,94	5,72	50,01	.4996	28	.97163	—	294,36	387,70	6,66	25,79	.2576
77	.94105	—	107,03	201,29	5,74	49,68	.4962	27	.97231	—	305,26	398,65	6,61	25,09	.2506
76	.94162	—	108,44	202,66	5,78	49,34	.4929	26	.97299	—	317,00	410,42	6,58	24,37	.2434
100 + 75	.94218	—	109,89	204,08	5,81	49,00	.4894	100 + 25	.97369	—	329,68	423,16	6,52	23,63	.2360
74	.94274	—	111,37	205,53	5,84	48,66	.4860	24	.97440	—	343,41	436,95	6,46	22,88	.2286
73	.94330	—	112,89	207,03	5,86	48,30	.4825	23	.97513	—	358,35	451,95	6,40	22,13	.2210
72	.94388	—	114,46	208,57	5,89	47,95	.4789	22	.97586	—	374,64	468,26	6,38	21,35	.2133
71	.94445	—	116,07	210,14	5,93	47,59	.4754	21	.97662	—	392,48	486,18	6,30	20,57	.2054
100 + 70	.94302	—	117,74	211,77	5,97	47,22	.4717	100 + 20	.97740	—	412,10	505,87	6,23	19,77	.1974
69	.94561	—	119,44	213,44	6,00	46,85	.4680	19	.97816	—	433,79	527,64	6,15	18,95	.1893
68	.94621	—	121,20	215,16	6,04	46,47	.4643	18	.97895	—	457,89	551,82	6,07	18,12	.1810
67	.94681	—	123,01	216,94	6,07	46,10	.4605	17	.97977	—	484,83	578,84	5,99	17,28	.1726
66	.94741	—	124,88	218,77	6,11	45,71	.4566	16	.98061	—	515,12	609,24	5,88	16,42	.1640
100 + 65	.94801	—	126,80	220,65	6,15	45,32	.4527	100 + 15	.98148	—	549,47	643,69	5,78	15,54	.1552
64	.94862	—	128,77	222,60	6,17	44,92	.4488	14	.98237	—	588,72	683,06	5,66	14,64	.1463
63	.94924	—	130,81	224,61	6,20	44,52	.4447	13	.98330	—	634,00	724,44	5,56	13,73	.1371
62	.94985	—	132,92	226,70	6,22	44,11	.4407	12	.98427	—	686,84	781,41	5,43	12,80	.1278
61	.95046	—	135,11	228,84	6,27	43,70	.4365	11	.98526	—	749,28	843,98	5,30	11,85	.1184
100 + 60	.95109	—	137,37	231,05	6,32	43,28	.4323	100 + 10	.98630	—	824,20	919,03	5,17	10,88	.1087
59	.95171	—	139,69	233,35	6,34	42,86	.4281	9	.98738	—	915,79	1010,76	5,03	9,89	.0987
58	.95234	—	142,09	235,72	6,37	42,42	.4238	8	.98851	—	1030,26	1125,38	4,88	8,88	.0888
57	.95297	—	144,59	238,18	6,41	41,98	.4194	7	.98970	—	1177,44	1272,72	4,72	7,86	.0785
56	.95360	—	147,18	240,72	6,46	41,54	.4149	6	.99094	—	1373,68	1469,12	4,56	6,81	.0680
100 + 55	.95423	—	149,85	243,37	6,48	41,09	.4104	100 + 5	.99224	—	1648,42	1744,03	4,39	5,73	.0573
54	.95486	—	152,61	246,10	6,51	40,63	.4058	4	.99361	—	2060,52	2156,29	4,23	4,64	.0463
53	.95548	—	155,49	248,96	6,53	40,16	.4012	3	.99505	—	2747,35	2843,29	4,06	3,52	.0351
52	.95610	—	158,48	251,94	6,54	39,69	.3965	2	.99656	—	4121,03	4217,12	3,91	2,37	.0237
51	.95673	—	161,60	255,02	6,58	39,21	.3917	1	.99815	—	8242,06	8338,30	3,76	1,20	.0120

TABLE I.

HEAT 63°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82357	100	—	100,00	—	100,00	,9983	100 + 50	,89571	100	41,19	137,92	3,27	72,51	,7238
1	,82589	—	0,82	100,72	0,10	99,29	,9912	51	,89661	—	42,01	138,70	3,31	72,10	,7198
2	,82815	—	1,65	101,44	0,21	98,58	,9842	52	,89750	—	42,84	139,48	3,36	71,69	,7158
3	,83035	—	2,47	102,16	0,31	97,88	,9772	53	,89838	—	43,66	140,26	3,40	71,29	,7117
4	,83250	—	3,30	102,89	0,41	97,19	,9703	54	,89924	—	44,48	141,04	3,44	70,90	,7078
100 + 5	,83457	—	4,12	103,62	0,50	96,51	,9634	100 + 55	,90010	—	45,31	141,82	3,49	70,51	,7039
6	,83661	—	4,94	104,35	0,59	95,83	,9567	56	,90094	—	46,13	142,60	3,53	70,13	,7001
7	,83860	—	5,77	105,09	0,68	95,16	,9501	57	,90177	—	46,95	143,38	3,57	69,74	,6962
8	,84054	—	6,59	105,83	0,76	94,50	,9435	58	,90258	—	47,78	144,17	3,61	69,36	,6924
9	,84243	—	7,42	106,57	0,85	93,84	,9369	59	,90337	—	48,60	144,95	3,65	68,99	,6885
100 + 10	,84426	—	8,24	107,31	0,93	93,19	,9304	100 + 60	,90416	—	49,42	145,73	3,69	68,62	,6850
11	,84607	—	9,06	108,05	1,01	92,55	,9240	61	,90494	—	50,24	146,52	3,72	68,25	,6813
12	,84783	—	9,89	108,80	1,09	91,91	,9176	62	,90571	—	51,07	147,31	3,76	67,89	,6777
13	,84955	—	10,71	109,55	1,16	91,28	,9113	63	,90646	—	51,89	148,09	3,80	67,53	,6741
14	,85124	—	11,53	110,30	1,23	90,66	,9051	64	,90721	—	52,72	148,87	3,85	67,17	,6705
100 + 15	,85288	—	12,35	111,05	1,30	90,05	,8990	100 + 65	,90795	—	53,54	149,66	3,88	66,82	,6670
16	,85451	—	13,18	111,80	1,38	89,44	,8929	66	,90869	—	54,37	150,45	3,92	66,47	,6636
17	,85609	—	14,00	112,56	1,44	88,85	,8869	67	,90941	—	55,19	151,23	3,96	66,12	,6601
18	,85766	—	14,82	113,31	1,51	88,25	,8810	68	,91014	—	56,02	152,02	4,00	65,78	,6567
19	,85919	—	15,65	114,07	1,58	87,66	,8752	69	,91085	—	56,84	152,80	4,04	65,44	,6533
100 + 20	,86069	—	16,47	114,83	1,64	87,08	,8694	100 + 70	,91154	—	57,66	153,59	4,07	65,11	,6500
21	,86217	—	17,29	115,58	1,71	86,51	,8637	71	,91224	—	58,48	154,38	4,10	64,78	,6467
22	,86361	—	18,12	116,34	1,78	85,95	,8580	72	,91291	—	59,31	155,17	4,14	64,45	,6434
23	,86503	—	18,95	117,10	1,85	85,39	,8525	73	,91358	—	60,13	155,95	4,18	64,12	,6401
24	,86642	—	19,77	117,87	1,90	84,84	,8470	74	,91425	—	60,96	156,74	4,22	63,80	,6369
100 + 25	,86779	—	20,60	118,63	1,97	84,29	,8415	100 + 75	,91488	—	61,78	157,53	4,25	63,48	,6337
26	,86914	—	21,42	119,39	2,03	83,75	,8361	76	,91554	—	62,61	158,32	4,29	63,16	,6305
27	,87045	—	22,24	120,16	2,08	83,22	,8307	77	,91616	—	63,43	159,11	4,32	62,85	,6274
28	,87176	—	23,07	120,92	2,15	82,69	,8255	78	,91679	—	64,26	159,90	4,36	62,54	,6243
29	,87304	—	23,89	121,69	2,20	82,17	,8203	79	,91742	—	65,08	160,69	4,39	62,23	,6212
100 + 30	,87430	—	24,71	122,46	2,25	81,66	,8152	100 + 80	,91803	—	65,90	161,48	4,42	61,93	,6182
31	,87553	—	25,53	123,22	2,31	81,15	,8102	81	,91863	—	66,72	162,27	4,45	61,63	,6152
32	,87676	—	26,36	123,99	2,37	80,65	,8051	82	,91922	—	67,55	163,06	4,49	61,33	,6122
33	,87797	—	27,18	124,76	2,42	80,15	,8002	83	,91981	—	68,37	163,85	4,52	61,03	,6092
34	,87915	—	28,01	125,53	2,48	79,66	,7953	84	,92039	—	69,19	164,65	4,54	60,74	,6063
100 + 35	,88030	—	28,83	126,30	2,53	79,17	,7904	100 + 85	,92096	—	70,02	165,44	4,58	60,45	,6034
36	,88145	—	29,66	127,07	2,59	78,69	,7856	86	,92152	—	70,84	166,23	4,61	60,16	,6005
37	,88257	—	30,48	127,84	2,64	78,22	,7809	87	,92207	—	71,67	167,03	4,64	59,87	,5977
38	,88367	—	31,30	128,62	2,68	77,75	,7762	88	,92262	—	72,49	167,82	4,67	59,59	,5949
39	,88475	—	32,13	129,39	2,74	77,29	,7715	89	,92316	—	73,32	168,61	4,71	59,31	,5921
100 + 40	,88582	—	32,95	130,17	2,78	76,83	,7669	100 + 90	,92369	—	74,14	169,41	4,73	59,03	,5893
41	,88688	—	33,77	130,94	2,83	76,37	,7624	91	,92423	—	74,96	170,20	4,76	58,75	,5866
42	,88793	—	34,60	131,71	2,89	75,92	,7580	92	,92476	—	75,79	170,99	4,80	58,48	,5838
43	,88896	—	35,42	132,48	2,94	75,48	,7536	93	,92528	—	76,61	171,79	4,82	58,21	,5811
44	,88998	—	36,25	133,26	2,99	75,04	,7492	94	,92580	—	77,43	172,58	4,85	57,94	,5785
100 + 45	,89096	—	37,07	134,03	3,04	74,61	,7448	100 + 95	,92632	—	78,25	173,37	4,88	57,68	,5758
46	,89195	—	37,89	134,81	3,08	74,18	,7405	96	,92681	—	79,08	174,15	4,93	57,42	,5732
47	,89292	—	38,71	135,58	3,13	73,75	,7363	97	,92730	—	79,90	174,95	4,95	57,16	,5706
48	,89386	—	39,54	136,36	3,18	73,33	,7321	98	,92780	—	80,72	175,75	4,97	56,90	,5681
49	,89479	—	40,36	137,14	3,22	72,92	,7279	99	,92829	—	81,55	176,55	5,00	56,64	,5655

TABLE II.

HEAT 63°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,92878	100	82,38	177,34	5,04	56,38	,5629	100 + 50	,95703	100	164,76	258,17	6,59	38,73	,3867
99	,92928	—	83,21	178,15	5,06	56,13	,5604	49	,95767	—	168,13	261,50	6,63	38,24	,3818
98	,92976	—	84,06	178,97	5,09	55,87	,5578	48	,95832	—	171,62	264,98	6,64	37,74	,3768
97	,93025	—	84,90	179,81	5,09	55,61	,5552	47	,95896	—	175,27	268,61	6,66	37,23	,3717
96	,93074	—	85,81	180,66	5,15	55,35	,5526	46	,95961	—	179,09	272,40	6,69	36,71	,3665
100 + 95	,93122	—	86,71	181,54	5,17	55,08	,5499	100 + 45	,96026	—	183,07	276,36	6,71	36,18	,3612
94	,93172	—	87,64	182,42	5,22	54,81	,5472	44	,96090	—	187,23	280,49	6,74	35,65	,3560
93	,93220	—	88,58	183,34	5,24	54,54	,5445	43	,96155	—	191,58	284,83	6,75	35,11	,3505
92	,93269	—	89,54	184,27	5,27	54,26	,5417	42	,96219	—	196,14	289,38	6,76	34,55	,3450
91	,93318	—	90,52	185,24	5,28	53,99	,5389	41	,96283	—	200,92	294,15	6,77	33,99	,3394
100 + 90	,93369	—	91,53	186,21	5,32	53,70	,5361	100 + 40	,96348	—	205,95	299,18	6,77	33,42	,3337
89	,93419	—	92,56	187,21	5,35	53,41	,5333	39	,96413	—	211,23	304,45	6,78	32,85	,3279
88	,93471	—	93,61	188,23	5,38	53,12	,5304	38	,96477	—	216,79	310,01	6,78	32,26	,3220
87	,93523	—	94,69	189,27	5,42	52,83	,5275	37	,96542	—	222,64	315,87	6,77	31,66	,3161
86	,93575	—	95,79	190,35	5,44	52,53	,5245	36	,96608	—	228,84	322,05	6,79	31,05	,3100
100 + 85	,93628	—	96,92	191,45	5,47	52,23	,5215	100 + 35	,96672	—	235,37	328,59	6,78	30,43	,3038
84	,93681	—	98,07	192,57	5,50	51,93	,5185	34	,96739	—	242,30	335,52	6,78	29,80	,2976
83	,93735	—	99,25	193,72	5,53	51,62	,5154	33	,96805	—	249,64	342,90	6,74	29,16	,2912
82	,93790	—	100,46	194,90	5,56	51,31	,5123	32	,96871	—	257,44	350,72	6,72	28,51	,2847
81	,93845	—	101,70	196,10	5,60	50,99	,5091	31	,96938	—	265,74	359,03	6,71	27,85	,2781
100 + 80	,93900	—	102,97	197,34	5,63	50,67	,5059	100 + 30	,97005	—	274,60	367,90	6,70	27,18	,2714
79	,93956	—	104,28	198,61	5,67	50,35	,5026	29	,97073	—	284,06	377,39	6,67	26,50	,2645
78	,94011	—	105,61	199,91	5,70	50,02	,4994	28	,97141	—	294,22	387,56	6,66	25,80	,2575
77	,94066	—	106,98	201,26	5,72	49,69	,4960	27	,97210	—	305,11	398,50	6,61	25,10	,2505
76	,94123	—	108,39	202,63	5,76	49,35	,4927	26	,97278	—	316,85	410,27	6,58	24,38	,2433
100 + 75	,94178	—	109,83	204,05	5,78	49,01	,4892	100 + 25	,97349	—	329,52	423,00	6,52	23,64	,2360
74	,94235	—	111,31	205,50	5,81	48,66	,4858	24	,97421	—	343,25	436,78	6,47	22,89	,2286
73	,94291	—	112,83	206,99	5,84	48,31	,4823	23	,97494	—	358,18	451,77	6,41	22,13	,2210
72	,94349	—	114,41	208,54	5,87	47,95	,4787	22	,97568	—	374,46	468,08	6,38	21,36	,2133
71	,94406	—	116,01	210,11	5,90	47,60	,4752	21	,97645	—	392,29	485,98	6,31	20,58	,2054
100 + 70	,94364	—	117,68	211,73	5,95	47,23	,4715	100 + 20	,97723	—	411,90	505,66	6,24	19,77	,1974
69	,94523	—	119,38	213,40	5,98	46,86	,4678	19	,97800	—	433,58	527,42	6,16	18,96	,1893
68	,94583	—	121,14	215,12	6,02	46,48	,4641	18	,97879	—	457,07	551,59	6,08	18,13	,1810
67	,94643	—	122,95	216,90	6,05	46,10	,4603	17	,97962	—	484,60	578,59	6,01	17,29	,1725
66	,94703	—	124,82	218,73	6,09	45,72	,4564	16	,98047	—	514,88	608,98	5,90	16,43	,1639
100 + 65	,94763	—	126,74	220,61	6,13	45,33	,4525	100 + 15	,98134	—	549,21	643,41	5,80	15,55	,1552
64	,94825	—	128,71	222,56	6,15	44,93	,4486	14	,98223	—	588,44	682,76	5,68	14,65	,1463
63	,94887	—	130,75	224,57	6,18	44,53	,4445	13	,98317	—	633,70	728,12	5,58	13,74	,1371
62	,94948	—	132,86	226,65	6,21	44,12	,4405	12	,98414	—	686,51	781,06	5,45	12,80	,1278
61	,95010	—	135,05	228,79	6,26	43,71	,4363	11	,98514	—	748,92	843,60	5,32	11,85	,1183
100 + 60	,95073	—	137,30	231,00	6,30	43,29	,4321	100 + 10	,98618	—	823,81	918,61	5,20	10,88	,1087
59	,95135	—	139,62	233,30	6,32	42,87	,4279	9	,98726	—	915,35	1010,29	5,06	9,90	,0988
58	,95198	—	142,02	235,67	6,35	42,43	,4236	8	,98840	—	1029,77	1124,86	4,91	8,89	,0888
57	,95261	—	144,52	238,13	6,39	41,99	,4192	7	,98960	—	1176,88	1272,12	4,76	7,86	,0785
56	,95325	—	147,11	240,67	6,44	41,55	,4148	6	,99084	—	1373,02	1468,42	4,60	6,81	,0680
100 + 55	,95388	—	149,78	243,32	6,46	41,09	,4103	100 + 5	,99214	—	1647,63	1743,20	4,43	5,73	,0573
54	,95451	—	152,53	246,05	6,48	40,64	,4057	4	,99351	—	2059,53	2155,26	4,27	4,64	,0463
53	,95513	—	155,41	248,90	6,51	40,17	,4011	3	,99495	—	2746,03	2841,93	4,10	3,52	,0351
52	,95576	—	158,40	251,88	6,52	39,70	,3964	2	,99646	—	4119,06	4215,10	3,96	2,37	,0237
51	,95639	—	161,52	254,96	6,56	39,22	,3916	1	,99805	—	8238,12	8334,30	3,82	1,20	,0120



TABLE I.

HEAT 64°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82310	100	—	100,00	—	100,00	,9977	100 + 50	,89525	100	41,17	137,91	3,26	72,51	,7235
1	,82541	—	0,82	100,72	0,10	99,29	,9906	51	,89616	—	41,99	138,69	3,30	72,10	,7194
2	,82767	—	1,65	101,44	0,21	98,58	,9836	52	,89705	—	42,82	139,47	3,35	71,70	,7154
3	,82987	—	2,47	102,16	0,31	97,88	,9766	53	,89793	—	43,64	140,25	3,39	71,30	,7114
4	,83202	—	3,29	102,89	0,40	97,19	,9698	54	,89879	—	44,46	141,03	3,43	70,91	,7075
100 + 5	,83409	—	4,11	103,62	0,49	96,51	,9629	100 + 55	,89965	—	45,29	141,81	3,48	70,51	,7035
6	,83614	—	4,94	104,35	0,59	95,83	,9562	56	,90049	—	46,11	142,59	3,52	70,13	,6997
7	,83813	—	5,77	105,09	0,68	95,17	,9495	57	,90132	—	46,93	143,37	3,56	69,74	,6958
8	,84007	—	6,59	105,82	0,77	94,50	,9429	58	,90214	—	47,76	144,16	3,60	69,36	,6921
9	,84196	—	7,41	106,56	0,85	93,84	,9363	59	,90293	—	48,58	144,94	3,64	68,99	,6883
100 + 10	,84379	—	8,24	107,30	0,94	93,20	,9298	100 + 60	,90372	—	49,40	145,72	3,68	68,63	,6846
11	,84560	—	9,06	108,05	1,01	92,56	,9234	61	,90450	—	50,22	146,51	3,71	68,26	,6809
12	,84736	—	9,88	108,79	1,09	91,92	,9171	62	,90527	—	51,05	147,29	3,76	67,89	,6773
13	,84908	—	10,70	109,55	1,15	91,29	,9108	63	,90602	—	51,87	148,08	3,79	67,54	,6738
14	,85076	—	11,52	110,29	1,23	90,67	,9046	64	,90677	—	52,69	148,86	3,83	67,18	,6702
100 + 15	,85241	—	12,35	111,05	1,30	90,05	,8985	100 + 65	,90751	—	53,52	149,65	3,87	66,82	,6667
16	,85403	—	13,17	111,80	1,37	89,45	,8924	66	,90825	—	54,34	150,43	3,91	66,47	,6632
17	,85562	—	14,00	112,56	1,44	88,85	,8864	67	,90897	—	55,16	151,22	3,94	66,12	,6598
18	,85719	—	14,82	113,31	1,51	88,26	,8805	68	,90970	—	55,99	152,00	3,99	65,78	,6564
19	,85872	—	15,64	114,07	1,57	87,67	,8747	69	,91041	—	56,81	152,79	4,02	65,45	,6530
100 + 20	,86022	—	16,46	114,82	1,64	87,09	,8689	100 + 70	,91110	—	57,63	153,58	4,05	65,11	,6496
21	,86170	—	17,29	115,58	1,71	86,52	,8632	71	,91180	—	58,45	154,36	4,09	64,78	,6464
22	,86314	—	18,11	116,34	1,77	85,95	,8576	72	,91247	—	59,28	155,15	4,13	64,45	,6431
23	,86456	—	18,94	117,10	1,84	85,39	,8521	73	,91314	—	60,10	155,94	4,16	64,12	,6398
24	,86596	—	19,76	117,86	1,90	84,84	,8465	74	,91380	—	60,93	156,73	4,20	63,80	,6366
100 + 25	,86732	—	20,59	118,63	1,96	84,29	,8410	100 + 75	,91444	—	61,75	157,51	4,24	63,48	,6334
26	,86868	—	21,41	119,39	2,02	83,76	,8356	76	,91510	—	62,58	158,31	4,27	63,17	,6302
27	,86999	—	22,23	120,16	2,07	83,23	,8303	77	,91572	—	63,40	159,09	4,31	62,85	,6271
28	,87130	—	23,06	120,92	2,14	82,70	,8250	78	,91635	—	64,23	159,88	4,35	62,54	,6240
29	,87258	—	23,88	121,69	2,19	82,17	,8198	79	,91698	—	65,05	160,68	4,37	62,23	,6209
100 + 30	,87384	—	24,70	122,46	2,24	81,66	,8148	100 + 80	,91759	—	65,87	161,46	4,41	61,93	,6179
31	,87507	—	25,52	123,22	2,30	81,16	,8097	81	,91819	—	66,69	162,25	4,44	61,63	,6149
32	,87630	—	26,35	123,99	2,36	80,66	,8047	82	,91879	—	67,52	163,04	4,48	61,33	,6119
33	,87751	—	27,17	124,76	2,41	80,16	,7998	83	,91938	—	68,34	163,84	4,50	61,03	,6089
34	,87869	—	27,99	125,53	2,46	79,66	,7949	84	,91996	—	69,16	164,63	4,53	60,74	,6060
100 + 35	,87984	—	28,82	126,30	2,52	79,17	,7900	100 + 85	,92053	—	69,99	165,42	4,57	60,45	,6031
36	,88099	—	29,64	127,07	2,57	78,69	,7852	86	,92109	—	70,81	166,21	4,60	60,16	,6002
37	,88211	—	30,46	127,83	2,63	78,22	,7805	87	,92164	—	71,64	167,01	4,63	59,88	,5974
38	,88321	—	31,29	128,61	2,68	77,75	,7758	88	,92219	—	72,46	167,80	4,66	59,60	,5946
39	,88429	—	32,11	129,38	2,73	77,29	,7711	89	,92273	—	73,28	168,60	4,68	59,31	,5918
100 + 40	,88536	—	32,93	130,16	2,77	76,83	,7666	100 + 90	,92326	—	74,11	169,39	4,72	59,03	,5890
41	,88642	—	33,76	130,93	2,83	76,37	,7620	91	,92380	—	74,93	170,18	4,75	58,76	,5863
42	,88747	—	34,59	131,70	2,89	75,92	,7576	92	,92433	—	75,76	170,97	4,79	58,49	,5836
43	,88850	—	35,41	132,47	2,94	75,49	,7532	93	,92485	—	76,57	171,77	4,80	58,22	,5808
44	,88952	—	36,23	133,25	2,98	75,04	,7488	94	,92537	—	77,39	172,56	4,83	57,95	,5782
100 + 45	,89051	—	37,06	134,02	3,04	74,61	,7444	100 + 95	,92589	—	78,21	173,35	4,86	57,68	,5755
46	,89150	—	37,87	134,80	3,07	74,18	,7401	96	,92639	—	79,04	174,13	4,91	57,42	,5730
47	,89246	—	38,69	135,57	3,12	73,76	,7359	97	,92688	—	79,86	174,93	4,93	57,16	,5704
48	,89340	—	39,52	136,35	3,17	73,34	,7317	98	,92738	—	80,68	175,72	4,96	56,90	,5678
49	,89433	—	40,34	137,13	3,21	72,92	,7275	99	,92787	—	81,51	176,52	4,99	56,65	,5652

TABLE II.

HEAT 64°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,92836	100	82,34	177,32	5,02	56,39	,5626	100 + 50	,95669	100	164,68	258,11	6,57	38,74	,3865
99	,92886	—	83,17	178,13	5,04	56,13	,5601	49	,95734	—	168,05	261,44	6,61	38,25	,3816
98	,92935	—	84,02	178,95	5,07	55,88	,5576	48	,95799	—	171,54	264,92	6,62	37,75	,3767
97	,92983	—	84,87	179,79	5,08	55,62	,5549	47	,95863	—	175,19	268,55	6,64	37,24	,3716
96	,93033	—	85,77	180,64	5,13	55,35	,5523	46	,95929	—	179,00	272,33	6,67	36,72	,3664
100 + 95	,93081	—	86,67	181,51	5,16	55,09	,5497	100 + 45	,95994	—	182,98	276,29	6,69	36,19	,3611
94	,93130	—	87,60	182,40	5,20	54,82	,5469	44	,96059	—	187,14	280,42	6,72	35,66	,3558
93	,93179	—	88,54	183,32	5,22	54,55	,5442	43	,96124	—	191,49	284,76	6,73	35,11	,3504
92	,93228	—	89,50	184,25	5,25	54,27	,5414	42	,96188	—	196,15	289,31	6,74	34,56	,3449
91	,93277	—	90,48	185,21	5,27	53,99	,5386	41	,96253	—	200,83	294,08	6,75	34,00	,3393
100 + 90	,93327	—	91,49	186,19	5,30	53,71	,5358	100 + 40	,96318	—	205,85	299,10	6,75	33,43	,3336
89	,93378	—	92,51	187,19	5,32	53,42	,5331	39	,96384	—	211,13	304,37	6,76	32,86	,3278
88	,93430	—	93,56	188,20	5,36	53,13	,5302	38	,96449	—	216,69	309,92	6,77	32,27	,3219
87	,93482	—	94,64	189,25	5,39	52,84	,5273	37	,96514	—	222,54	315,77	6,77	31,67	,3160
86	,93534	—	95,75	190,32	5,43	52,54	,5243	36	,96581	—	228,73	321,95	6,78	31,06	,3099
100 + 85	,93587	—	96,87	191,42	5,45	52,24	,5212	100 + 35	,96646	—	235,26	328,49	6,77	30,44	,3037
84	,93641	—	98,03	192,54	5,49	51,94	,5182	34	,96713	—	242,18	335,42	6,76	29,81	,2975
83	,93695	—	99,21	193,69	5,52	51,63	,5152	33	,96780	—	249,52	342,80	6,72	29,17	,2911
82	,93750	—	100,41	194,87	5,54	51,32	,5121	32	,96847	—	257,32	350,61	6,71	28,52	,2846
81	,93806	—	101,65	196,07	5,58	51,00	,5089	31	,96914	—	265,61	358,92	6,69	27,86	,2780
100 + 80	,93861	—	102,92	197,31	5,61	50,68	,5056	100 + 30	,96982	—	274,47	367,78	6,69	27,19	,2713
79	,93917	—	104,23	198,58	5,65	50,36	,5024	29	,97051	—	283,93	377,26	6,67	26,51	,2645
78	,93972	—	105,56	199,88	5,68	50,03	,4992	28	,97119	—	294,08	387,42	6,66	25,81	,2575
77	,94027	—	106,93	201,23	5,70	49,69	,4958	27	,97189	—	304,97	398,36	6,61	25,11	,2505
76	,94183	—	108,34	202,60	5,74	49,35	,4925	26	,97258	—	316,70	410,12	6,58	24,39	,2433
100 + 75	,94139	—	109,78	204,01	5,77	49,01	,4890	100 + 25	,97329	—	329,36	422,84	6,52	23,65	,2360
74	,94196	—	111,26	205,47	5,79	48,67	,4856	24	,97402	—	343,09	436,61	6,48	22,90	,2286
73	,94252	—	112,78	206,95	5,83	48,32	,4821	23	,97475	—	358,01	451,59	6,42	21,14	,2210
72	,94310	—	114,35	208,50	5,85	47,96	,4785	22	,97550	—	374,28	467,90	6,38	21,37	,2132
71	,94368	—	115,96	210,08	5,88	47,61	,4750	21	,97628	—	392,10	485,79	6,31	20,58	,2054
100 + 70	,94326	—	117,62	211,70	5,92	47,24	,4713	100 + 20	,97706	—	411,71	505,45	6,26	19,78	,1974
69	,94485	—	119,32	213,36	5,96	46,87	,4676	19	,97784	—	433,37	527,20	6,17	18,97	,1892
68	,94545	—	121,08	215,08	6,00	46,49	,4639	18	,97864	—	457,45	551,36	6,09	18,14	,1809
67	,94605	—	122,89	216,86	6,03	46,11	,4601	17	,97947	—	484,37	578,35	6,02	17,29	,1725
66	,94666	—	124,76	218,69	6,07	45,73	,4562	16	,98033	—	514,64	608,72	5,92	16,43	,1639
100 + 65	,94725	—	126,68	220,57	6,11	45,34	,4523	100 + 15	,98120	—	548,95	643,13	5,82	15,55	,1551
64	,94788	—	128,65	222,51	6,14	44,94	,4484	14	,98210	—	588,16	682,46	5,70	14,65	,1462
63	,94850	—	130,69	224,52	6,17	44,54	,4444	13	,98304	—	633,40	727,80	5,60	13,74	,1371
62	,94912	—	132,80	226,61	6,19	44,13	,4403	12	,98401	—	686,18	780,71	5,47	12,81	,1278
61	,94974	—	134,98	228,74	6,24	43,72	,4362	11	,98502	—	748,56	843,22	5,34	11,86	,1183
100 + 60	,95037	—	137,23	230,96	6,27	43,30	,4320	100 + 10	,98606	—	823,42	918,19	5,23	10,89	,1087
59	,95099	—	139,55	233,25	6,30	42,87	,4277	9	,98715	—	914,91	1009,83	5,08	9,90	,0988
58	,95162	—	141,95	235,62	6,33	42,44	,4234	8	,98829	—	1029,28	1124,34	4,94	8,89	,0887
57	,95226	—	144,45	238,08	6,37	42,00	,4190	7	,98950	—	1176,32	1271,52	4,80	7,86	,0785
56	,95290	—	147,04	240,62	6,42	41,56	,4146	6	,99074	—	1372,37	1467,73	4,64	6,81	,0680
100 + 55	,95353	—	149,71	243,27	6,44	41,10	,4101	100 + 5	,99204	—	1646,84	1742,37	4,47	5,74	,0573
54	,95416	—	152,45	246,00	6,45	40,65	,4055	4	,99341	—	2058,55	2154,24	4,31	4,64	,0463
53	,95479	—	155,33	248,85	6,48	40,18	,4010	3	,99485	—	2744,72	2840,58	4,14	3,52	,0351
52	,95542	—	158,32	251,82	6,50	39,71	,3963	2	,99636	—	4117,09	4213,09	4,00	2,37	,0237
51	,95605	—	161,44	254,90	6,54	39,23	,3915	1	,99795	—	8234,20	8330,33	3,87	1,20	,0120

TABLE I.

HEAT 65°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82262	100	—	100,00	—	100,00	,9971	100 + 50	,89479	100	41,15	137,90	3,25	72,52	,7231
1	,82493	—	0,82	100,72	0,10	99,29	,9900	51	,89570	—	41,97	138,68	3,29	72,11	,7190
2	,82719	—	1,65	101,44	0,21	98,58	,9830	52	,89659	—	42,80	139,46	3,34	71,70	,7150
3	,82939	—	2,47	102,16	0,31	97,88	,9760	53	,89747	—	43,62	140,24	3,38	71,30	,7110
4	,83154	—	3,29	102,89	0,40	97,19	,9691	54	,89834	—	44,44	141,02	3,42	70,91	,7071
100 + 5	,83362	—	4,11	103,62	0,49	96,51	,9623	100 + 55	,89920	—	45,27	141,80	3,47	70,52	,7032
6	,83566	—	4,94	104,35	0,59	95,84	,9556	56	,90004	—	46,09	142,58	3,51	70,13	,6993
7	,83765	—	5,76	105,08	0,68	95,17	,9489	57	,90087	—	46,91	143,36	3,55	69,75	,6955
8	,83960	—	6,58	105,82	0,76	94,50	,9423	58	,90168	—	47,74	144,15	3,59	69,37	,6917
9	,84150	—	7,41	106,56	0,85	93,85	,9358	59	,90248	—	48,56	144,93	3,63	69,00	,6880
100 + 10	,84334	—	8,23	107,30	0,93	93,20	,9293	100 + 60	,90328	—	49,38	145,71	3,67	68,63	,6843
11	,84513	—	9,05	108,04	1,01	92,56	,9229	61	,90406	—	50,20	146,50	3,70	68,26	,6806
12	,84689	—	9,88	108,79	1,09	91,92	,9166	62	,90483	—	51,03	147,28	3,75	67,90	,6770
13	,84861	—	10,70	109,54	1,16	91,29	,9103	63	,90558	—	51,85	148,07	3,78	67,54	,6734
14	,85029	—	11,52	110,29	1,23	90,67	,9041	64	,90633	—	52,67	148,85	3,82	67,18	,6698
100 + 15	,85193	—	12,34	111,04	1,30	90,05	,8980	100 + 65	,90707	—	53,50	149,64	3,86	66,83	,6663
16	,85355	—	13,17	111,79	1,38	89,45	,8919	66	,90781	—	54,32	150,42	3,90	66,48	,6628
17	,85515	—	13,99	112,55	1,44	88,85	,8859	67	,90853	—	55,14	151,21	3,93	66,13	,6594
18	,85672	—	14,81	113,30	1,51	88,26	,8800	68	,90925	—	55,97	151,99	3,98	65,79	,6560
19	,85826	—	15,64	114,06	1,58	87,67	,8742	69	,90996	—	56,79	152,78	4,01	65,45	,6526
100 + 20	,85976	—	16,46	114,82	1,64	87,09	,8684	100 + 70	,91066	—	57,61	153,56	4,05	65,12	,6493
21	,86123	—	17,28	115,57	1,71	86,52	,8627	71	,91135	—	58,43	154,35	4,08	64,79	,6460
22	,86268	—	18,10	116,33	1,77	85,96	,8571	72	,91202	—	59,26	155,14	4,12	64,46	,6427
23	,86410	—	18,93	117,09	1,84	85,40	,8515	73	,91269	—	60,08	155,93	4,15	64,13	,6395
24	,86549	—	19,75	117,86	1,89	84,85	,8460	74	,91335	—	60,90	156,72	4,18	63,81	,6363
100 + 25	,86686	—	20,58	118,62	1,96	84,30	,8406	100 + 75	,91400	—	61,73	157,50	4,23	63,49	,6331
26	,86821	—	21,40	119,38	2,02	83,76	,8352	76	,91465	—	62,55	158,29	4,26	63,17	,6299
27	,86953	—	22,22	120,15	2,07	83,23	,8299	77	,91528	—	63,37	159,08	4,29	62,86	,6268
28	,87083	—	23,05	120,91	2,14	82,70	,8246	78	,91591	—	64,20	159,87	4,33	62,55	,6237
29	,87211	—	23,87	121,68	2,19	82,18	,8194	79	,91654	—	65,02	160,66	4,36	62,24	,6206
100 + 30	,87337	—	24,69	122,45	2,24	81,67	,8143	100 + 80	,91715	—	65,84	161,45	4,39	61,94	,6176
31	,87461	—	25,51	123,21	2,30	81,16	,8092	81	,91776	—	66,66	162,24	4,42	61,64	,6146
32	,87583	—	26,34	123,98	2,36	80,66	,8042	82	,91835	—	67,49	163,03	4,46	61,34	,6116
33	,87704	—	27,16	124,75	2,41	80,16	,7993	83	,91894	—	68,31	163,82	4,49	61,04	,6086
34	,87822	—	27,98	125,52	2,46	79,67	,7944	84	,91953	—	69,13	164,61	4,52	60,75	,6057
100 + 35	,87938	—	28,81	126,29	2,52	79,18	,7896	100 + 85	,92010	—	69,96	165,40	4,56	60,46	,6028
36	,88052	—	29,63	127,06	2,57	78,70	,7848	86	,92066	—	70,78	166,19	4,59	60,17	,5999
37	,88164	—	30,45	127,83	2,62	78,23	,7800	87	,92121	—	71,61	166,99	4,62	59,89	,5971
38	,88274	—	31,27	128,60	2,67	77,76	,7753	88	,92176	—	72,43	167,78	4,65	59,60	,5943
39	,88382	—	32,10	129,37	2,73	77,30	,7707	89	,92230	—	73,25	168,58	4,67	59,32	,5915
100 + 40	,88490	—	32,92	130,15	2,77	76,84	,7662	100 + 90	,92283	—	74,07	169,37	4,70	59,04	,5887
41	,88596	—	33,74	130,92	2,82	76,38	,7616	91	,92337	—	74,90	170,16	4,74	58,77	,5860
42	,88701	—	34,57	131,69	2,88	75,93	,7572	92	,92390	—	75,72	170,95	4,77	58,50	,5833
43	,88804	—	35,39	132,46	2,93	75,49	,7528	93	,92442	—	76,54	171,75	4,79	58,23	,5806
44	,88906	—	36,21	133,24	2,97	75,05	,7484	94	,92494	—	77,36	172,54	4,82	57,96	,5779
100 + 45	,89006	—	37,04	134,01	3,03	74,62	,7440	100 + 95	,92546	—	78,18	173,33	4,85	57,69	,5753
46	,89104	—	37,86	134,79	3,07	74,19	,7397	96	,92596	—	79,00	174,11	4,89	57,43	,5727
47	,89200	—	38,68	135,57	3,11	73,76	,7355	97	,92646	—	79,82	174,90	4,92	57,17	,5701
48	,89294	—	39,50	136,34	3,16	73,34	,7313	98	,92696	—	80,64	175,70	4,94	56,91	,5675
49	,89387	—	40,33	137,12	3,21	72,93	,7272	99	,92745	—	81,47	176,50	4,97	56,66	,5649

TABLE II.

HEAT 65°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92794	100	82,30	177,30	5,00	56,40	.5624	100 + 50	.95635	100	164,61	258,05	6,56	38,75	.3864
99	.92844	—	83,13	178,11	5,01	56,14	.5599	49	.95700	—	167,97	261,38	6,59	38,26	.3815
98	.92893	—	83,98	178,93	5,05	55,89	.5574	48	.95765	—	171,46	264,86	6,60	37,76	.3765
97	.92942	—	84,84	179,77	5,07	55,63	.5547	47	.95830	—	175,11	268,49	6,62	37,25	.3714
96	.92991	—	85,72	180,62	5,10	55,36	.5521	46	.95896	—	178,92	272,27	6,65	36,73	.3662
100 + 95	.93040	—	86,63	181,49	5,14	55,10	.5494	100 + 45	.95962	—	182,90	276,22	6,68	36,20	.3610
94	.93088	—	87,56	182,38	5,18	54,83	.5467	44	.96027	—	187,05	280,35	6,70	35,67	.3557
93	.93137	—	88,50	183,29	5,21	54,56	.5440	43	.96092	—	191,40	284,69	6,71	35,12	.3502
92	.93186	—	89,46	184,23	5,23	54,28	.5412	42	.96157	—	195,96	289,24	6,72	34,57	.3447
91	.93235	—	90,44	185,19	5,25	54,00	.5384	41	.96222	—	200,74	294,01	6,73	34,01	.3392
100 + 90	.93285	—	91,45	186,16	5,29	53,72	.5356	100 + 40	.96288	—	205,76	299,02	6,74	33,44	.3335
89	.93336	—	92,47	187,16	5,31	53,43	.5328	39	.96354	—	211,03	304,29	6,74	32,86	.3277
88	.93388	—	93,52	188,18	5,34	53,14	.5299	38	.96420	—	216,59	309,83	6,76	32,28	.3218
87	.93440	—	94,60	189,23	5,37	52,84	.5270	37	.96486	—	222,44	315,68	6,76	31,68	.3159
86	.93493	—	95,70	190,30	5,40	52,55	.5240	36	.96553	—	228,62	321,85	6,77	31,07	.3098
100 + 85	.93546	—	96,83	191,39	5,44	52,25	.5210	100 + 35	.96620	—	235,15	328,39	6,76	30,45	.3036
84	.93600	—	97,98	192,51	5,47	51,94	.5180	34	.96687	—	242,07	335,32	6,75	29,82	.2974
83	.93655	—	99,16	193,66	5,50	51,63	.5149	33	.96754	—	249,40	342,70	6,70	29,18	.2910
82	.93710	—	100,37	194,84	5,53	51,32	.5118	32	.96822	—	257,20	350,51	6,69	28,53	.2845
81	.93766	—	101,61	196,04	5,57	51,01	.5086	31	.96890	—	265,49	358,81	6,68	27,87	.2779
100 + 80	.93822	—	102,88	197,28	5,60	50,69	.5054	100 + 30	.96959	—	274,34	367,65	6,69	27,20	.2712
79	.93877	—	104,18	198,55	5,63	50,37	.5022	29	.97028	—	283,80	377,13	6,67	26,52	.2644
78	.93932	—	105,51	199,85	5,66	50,04	.4989	28	.97097	—	293,94	387,28	6,66	25,82	.2574
77	.93987	—	106,88	201,19	5,69	49,70	.4956	27	.97167	—	304,83	398,22	6,61	25,11	.2504
76	.94043	—	108,29	202,57	5,72	49,36	.4922	26	.97237	—	316,55	409,97	6,58	24,39	.2432
100 + 75	.94099	—	109,73	203,98	5,75	49,02	.4888	100 + 25	.97309	—	329,21	422,68	6,53	23,66	.2359
74	.94156	—	111,21	205,43	5,78	48,68	.4854	24	.97382	—	342,93	436,45	6,48	22,91	.2285
73	.94213	—	112,73	206,92	5,81	48,33	.4819	23	.97456	—	357,84	451,41	6,43	22,15	.2209
72	.94271	—	114,30	208,46	5,84	47,97	.4783	22	.97532	—	374,10	467,72	6,38	21,38	.2132
71	.94329	—	115,91	210,04	5,87	47,61	.4747	21	.97610	—	391,92	485,60	6,32	20,59	.2053
100 + 70	.94388	—	117,57	211,66	5,91	47,25	.4711	100 + 20	.97688	—	411,52	505,25	6,27	19,79	.1973
69	.94447	—	119,27	213,32	5,95	46,88	.4674	19	.97767	—	433,17	526,99	6,17	18,97	.1892
68	.94507	—	121,02	215,04	5,98	46,50	.4637	18	.97848	—	457,24	551,13	6,11	18,14	.1809
67	.94567	—	122,83	216,82	6,01	46,12	.4599	17	.97932	—	484,14	578,11	6,03	17,30	.1725
66	.94628	—	124,70	218,65	6,05	45,74	.4560	16	.98018	—	514,40	608,46	5,94	16,44	.1639
100 + 65	.94689	—	126,62	220,53	6,09	45,35	.4521	100 + 15	.98106	—	548,69	642,85	5,84	15,56	.1551
64	.94751	—	128,59	222,47	6,12	44,95	.4482	14	.98196	—	587,88	682,16	5,72	14,66	.1462
63	.94813	—	130,63	224,48	6,15	44,55	.4442	13	.98290	—	633,10	727,48	5,62	13,75	.1371
62	.94875	—	132,74	226,56	6,18	44,14	.4401	12	.98388	—	685,86	780,36	5,50	12,81	.1278
61	.94937	—	134,92	228,70	6,22	43,73	.4360	11	.98489	—	748,21	842,84	5,37	11,86	.1183
100 + 60	.95000	—	137,17	230,91	6,26	43,31	.4318	100 + 10	.98594	—	823,03	917,77	5,26	10,89	.1086
59	.95063	—	139,49	233,20	6,29	42,88	.4276	9	.98703	—	914,48	1009,37	5,11	9,91	.0988
58	.95126	—	141,89	235,57	6,32	42,45	.4233	8	.98818	—	1028,79	1123,82	4,97	8,90	.0887
57	.95190	—	144,38	238,03	6,35	42,01	.4189	7	.98939	—	1175,76	1270,93	4,83	7,87	.0785
56	.95254	—	146,97	240,58	6,39	41,57	.4145	6	.99063	—	1371,72	1467,04	4,68	6,82	.0680
100 + 55	.95318	—	149,64	243,22	6,42	41,11	.4100	100 + 5	.99194	—	1646,06	1741,54	4,52	5,74	.0572
54	.95381	—	152,38	245,95	6,43	40,66	.4054	4	.99331	—	2057,58	2153,22	4,36	4,64	.0463
53	.95444	—	155,25	248,80	6,45	40,19	.4008	3	.99475	—	2743,44	2839,24	4,20	3,52	.0351
52	.95507	—	158,24	251,77	6,47	39,72	.3961	2	.99626	—	4115,15	4211,11	4,04	2,37	.0237
51	.95571	—	161,36	254,85	6,51	39,24	.3913	1	.99784	—	8230,31	8326,40	3,91	1,20	.0120

TABLE I.

HEAT 66°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.	Spirit and Water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82214	100	—	100,00	—	100,00	,9965	100 + 50	,89433	100	41,13	137,89	3,24	72,52	,7227
1	,82446	—	0,82	100,72	0,10	99,29	,9895	51	,89525	—	41,95	138,67	3,28	72,12	,7187
2	,82672	—	1,65	101,44	0,21	98,58	,9825	52	,89613	—	42,78	139,45	3,33	71,71	,7147
3	,82892	—	2,47	102,16	0,31	97,88	,9755	53	,89702	—	43,60	140,22	3,38	71,31	,7107
4	,83107	—	3,29	102,89	0,40	97,19	,9686	54	,89789	—	44,42	141,00	3,42	70,92	,7068
100 + 5	,83315	—	4,11	103,62	0,49	96,51	,9618	100 + 55	,89875	—	45,24	141,78	3,46	70,53	,7028
6	,83519	—	4,94	104,35	0,59	95,84	,9551	56	,89959	—	46,06	142,56	3,50	70,14	,6990
7	,83717	—	5,76	105,08	0,68	95,17	,9484	57	,90042	—	46,88	143,35	3,53	69,76	,6952
8	,83912	—	6,58	105,82	0,76	94,50	,9418	58	,90124	—	47,71	144,13	3,58	69,38	,6914
9	,84102	—	7,41	106,56	0,85	93,85	,9353	59	,90204	—	48,53	144,91	3,62	69,00	,6877
100 + 10	,84286	—	8,23	107,30	0,93	93,20	,9288	100 + 60	,90284	—	49,35	145,70	3,65	68,64	,6840
11	,84465	—	9,05	108,04	1,01	92,56	,9224	61	,90362	—	50,17	146,48	3,69	68,27	,6803
12	,84641	—	9,87	108,79	1,08	91,92	,9160	62	,90439	—	51,00	147,26	3,74	67,90	,6767
13	,84813	—	10,69	109,54	1,15	91,29	,9098	63	,90514	—	51,82	148,05	3,77	67,54	,6731
14	,84981	—	11,51	110,29	1,22	90,67	,9036	64	,90589	—	52,64	148,83	3,81	67,19	,6695
100 + 15	,85145	—	12,34	111,04	1,30	90,05	,8975	100 + 65	,90663	—	53,47	149,62	3,85	66,84	,6660
16	,85307	—	13,16	111,79	1,37	89,45	,8914	66	,90737	—	54,29	150,40	3,89	66,49	,6625
17	,85467	—	13,98	112,55	1,43	88,85	,8854	67	,90809	—	55,11	151,19	3,92	66,14	,6591
18	,85624	—	14,80	113,30	1,50	88,26	,8795	68	,90881	—	55,94	151,97	3,97	65,79	,6557
19	,85778	—	15,63	114,06	1,57	87,67	,8737	69	,90952	—	56,76	152,76	4,00	65,46	,6523
100 + 20	,85928	—	16,45	114,82	1,63	87,09	,8679	100 + 70	,91023	—	57,58	153,55	4,03	65,13	,6490
21	,86076	—	17,27	115,57	1,70	86,52	,8622	71	,91091	—	58,40	154,33	4,07	64,80	,6457
22	,86221	—	18,09	116,33	1,76	85,96	,8566	72	,91159	—	59,23	155,12	4,11	64,46	,6424
23	,86363	—	18,92	117,09	1,83	85,40	,8511	73	,91225	—	60,05	155,91	4,14	64,13	,6392
24	,86502	—	19,74	117,85	1,89	84,85	,8456	74	,91291	—	60,87	156,70	4,17	63,82	,6360
100 + 25	,86639	—	20,57	118,62	1,95	84,30	,8401	100 + 75	,91356	—	61,70	157,48	4,22	63,50	,6328
26	,86774	—	21,39	119,38	2,01	83,76	,8348	76	,91421	—	62,52	158,27	4,25	63,18	,6296
27	,86907	—	22,21	120,14	2,07	83,23	,8295	77	,91484	—	63,34	159,06	4,28	62,87	,6265
28	,87037	—	23,04	120,91	2,13	82,70	,8242	78	,91547	—	64,16	159,85	4,31	62,56	,6234
29	,87165	—	23,86	121,68	2,18	82,18	,8190	79	,91610	—	64,99	160,64	4,35	62,25	,6203
100 + 30	,87291	—	24,68	122,44	2,24	81,67	,8139	100 + 80	,91670	—	65,81	161,43	4,38	61,95	,6173
31	,87415	—	25,50	123,20	2,30	81,17	,8088	81	,91732	—	66,63	162,22	4,41	61,64	,6143
32	,87537	—	26,33	123,97	2,36	80,66	,8038	82	,91791	—	67,45	163,01	4,44	61,34	,6113
33	,87658	—	27,15	124,74	2,41	80,16	,7989	83	,91851	—	68,27	163,80	4,47	61,05	,6083
34	,87776	—	27,97	125,52	2,45	79,67	,7940	84	,91910	—	69,09	164,59	4,50	60,76	,6054
100 + 35	,87892	—	28,80	126,28	2,52	79,18	,7891	100 + 85	,91967	—	69,92	165,39	4,53	60,46	,6026
36	,88006	—	29,61	127,05	2,56	78,70	,7844	86	,92023	—	70,74	166,18	4,56	60,18	,5997
37	,88117	—	30,44	127,82	2,62	78,23	,7796	87	,92078	—	71,57	166,97	4,60	59,89	,5969
38	,88227	—	31,26	128,59	2,67	77,76	,7749	88	,92133	—	72,39	167,76	4,63	59,61	,5941
39	,88336	—	32,08	129,36	2,72	77,30	,7703	89	,92187	—	73,21	168,56	4,65	59,33	,5913
100 + 40	,88443	—	32,90	130,14	2,76	76,84	,7658	100 + 90	,92241	—	74,03	169,35	4,68	59,05	,5885
41	,88549	—	33,72	130,91	2,81	76,38	,7612	91	,92295	—	74,86	170,14	4,72	58,77	,5858
42	,88654	—	34,55	131,68	2,87	75,93	,7568	92	,92347	—	75,68	170,93	4,75	58,50	,5831
43	,88758	—	35,37	132,45	2,92	75,50	,7524	93	,92400	—	76,50	171,72	4,78	58,23	,5804
44	,88860	—	36,19	133,23	2,96	75,06	,7480	94	,92452	—	77,32	172,52	4,80	57,96	,5777
100 + 45	,88959	—	37,02	134,00	3,02	74,62	,7436	100 + 95	,92504	—	78,14	173,31	4,83	57,70	,5750
46	,89058	—	37,84	134,78	3,06	74,19	,7394	96	,92554	—	78,96	174,09	4,87	57,44	,5725
47	,89154	—	38,66	135,56	3,10	73,77	,7352	97	,92604	—	79,78	174,88	4,90	57,18	,5699
48	,89249	—	39,48	136,33	3,15	73,35	,7310	98	,92654	—	80,60	175,67	4,93	56,92	,5673
49	,89342	—	40,31	137,11	3,20	72,93	,7268	99	,92703	—	81,43	176,47	4,96	56,66	,5647



TABLE II.

HEAT 66°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and Spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92752	100	82,26	177,27	4,99	56,41	.5621	100 + 50	.95601	100	164,53	257,99	6,54	38,76	.3863
99	.92801	—	83,09	178,08	5,01	56,15	.5596	49	.95667	—	167,89	261,31	6,58	38,27	.3814
98	.92851	—	83,94	178,90	5,04	55,89	.5571	48	.95732	—	171,38	264,79	6,59	37,77	.3764
97	.92900	—	84,80	179,74	5,06	55,63	.5544	47	.95798	—	175,02	268,42	6,60	37,26	.3713
96	.92949	—	85,68	180,59	5,09	55,37	.5518	46	.95864	—	178,83	272,20	6,63	36,73	.3661
100 + 95	.92998	—	86,59	181,46	5,13	55,11	.5492	100 + 45	.95930	—	182,81	276,16	6,65	36,21	.3609
94	.93046	—	87,51	182,35	5,16	54,83	.5465	44	.95996	—	186,96	280,28	6,68	35,67	.3556
93	.93095	—	88,45	183,26	5,19	54,56	.5438	43	.96061	—	191,31	284,61	6,70	35,13	.3501
92	.93144	—	89,41	184,20	5,21	54,28	.5410	42	.96127	—	195,86	289,16	6,70	34,58	.3446
91	.93194	—	90,39	185,16	5,23	54,00	.5382	41	.96193	—	200,64	293,93	6,71	34,02	.3391
100 + 90	.93242	—	91,40	186,13	5,27	53,72	.5354	100 + 40	.96259	—	205,66	298,94	6,72	33,45	.3334
89	.93295	—	92,42	187,13	5,29	53,43	.5326	39	.96325	—	210,93	304,20	6,73	32,87	.3276
88	.93347	—	93,47	188,16	5,31	53,14	.5297	38	.96392	—	216,48	309,74	6,74	32,28	.3217
87	.93399	—	94,55	189,20	5,35	52,85	.5268	37	.96459	—	222,33	315,59	6,74	31,68	.3158
86	.93452	—	95,65	190,27	5,38	52,56	.5238	36	.96526	—	228,51	321,76	6,75	31,07	.3097
100 + 85	.93505	—	96,78	191,36	5,42	52,25	.5207	100 + 35	.96593	—	235,04	328,29	6,75	30,46	.3035
84	.93559	—	97,93	192,49	5,44	51,95	.5178	34	.96661	—	241,95	335,21	6,74	29,83	.2973
83	.93614	—	99,11	193,64	5,47	51,64	.5147	33	.96728	—	249,28	342,59	6,69	29,19	.2909
82	.93669	—	100,32	194,82	5,50	51,33	.5116	32	.96797	—	257,07	350,40	6,67	28,54	.2844
81	.93725	—	101,56	196,02	5,54	51,02	.5084	31	.96865	—	265,36	358,69	6,67	27,88	.2778
100 + 80	.93781	—	102,83	197,25	5,58	50,70	.5052	100 + 30	.96935	—	274,21	367,53	6,68	27,21	.2711
79	.93836	—	104,13	198,52	5,61	50,37	.5020	29	.97004	—	283,66	377,00	6,66	26,52	.2643
78	.93892	—	105,46	199,82	5,64	50,04	.4987	28	.97074	—	293,80	387,15	6,65	25,83	.2574
77	.93947	—	106,83	201,16	5,67	49,71	.4954	27	.97145	—	304,68	398,09	6,59	25,12	.2504
76	.94003	—	108,24	202,54	5,70	49,37	.4920	26	.97216	—	316,40	409,83	6,57	24,40	.2432
100 + 75	.94058	—	109,68	203,95	5,73	49,03	.4886	100 + 25	.97288	—	329,05	422,52	6,53	23,67	.2359
74	.94116	—	111,15	205,40	5,75	48,69	.4852	24	.97362	—	342,76	436,28	6,48	22,92	.2285
73	.94174	—	112,67	206,88	5,79	48,34	.4817	23	.97436	—	357,67	451,24	6,43	22,16	.2209
72	.94232	—	114,24	208,43	5,81	47,98	.4782	22	.97513	—	373,92	467,54	6,38	21,39	.2132
71	.94290	—	115,85	210,00	5,85	47,62	.4746	21	.97591	—	391,73	485,41	6,32	20,60	.2053
100 + 70	.94349	—	117,51	211,62	5,89	47,26	.4709	100 + 20	.97670	—	411,32	505,05	6,27	19,80	.1973
69	.94409	—	119,21	213,28	5,93	46,89	.4672	19	.97750	—	432,96	526,78	6,18	18,98	.1892
68	.94469	—	120,96	215,00	5,96	46,51	.4635	18	.97831	—	457,02	550,90	6,12	18,15	.1809
67	.94529	—	122,77	216,78	5,99	46,13	.4597	17	.97916	—	483,91	577,87	6,04	17,31	.1725
66	.94590	—	124,64	218,61	6,03	45,75	.4559	16	.98002	—	514,15	608,20	5,95	16,45	.1639
100 + 65	.94652	—	126,56	220,49	6,07	45,35	.4520	100 + 15	.98091	—	548,43	642,57	5,86	15,57	.1551
64	.94714	—	128,53	222,43	6,10	44,95	.4480	14	.98181	—	587,60	681,86	5,74	14,67	.1462
63	.94776	—	130,56	224,44	6,12	44,56	.4441	13	.98276	—	632,80	727,16	5,64	13,75	.1371
62	.94838	—	132,67	226,51	6,16	44,15	.4400	12	.98374	—	685,53	780,01	5,52	12,82	.1278
61	.94900	—	134,85	228,65	6,20	43,74	.4359	11	.98476	—	747,85	842,46	5,39	11,87	.1183
100 + 60	.94963	—	137,10	230,86	6,24	43,32	.4317	100 + 10	.98580	—	822,64	917,36	5,28	10,90	.1086
59	.95026	—	139,42	233,16	6,26	42,89	.4275	9	.98690	—	914,05	1008,91	5,14	9,91	.0988
58	.95090	—	141,82	235,53	6,29	42,46	.4232	8	.98806	—	1028,30	1123,31	4,99	8,90	.0887
57	.95154	—	144,31	237,98	6,33	42,01	.4188	7	.98927	—	1175,20	1270,35	4,85	7,87	.0784
56	.95218	—	146,90	240,53	6,37	41,57	.4144	6	.99051	—	1371,07	1466,36	4,71	6,82	.0680
100 + 55	.95283	—	149,57	243,17	6,40	41,12	.4098	100 + 5	.99182	—	1645,28	1740,73	4,55	5,74	.0572
54	.95346	—	152,30	245,89	6,41	40,67	.4053	4	.99320	—	2056,61	2152,21	4,40	4,05	.0463
53	.95410	—	155,17	248,74	6,43	40,20	.4007	3	.99464	—	2742,15	2837,91	4,24	3,52	.0351
52	.95473	—	158,16	251,72	6,44	39,73	.3960	2	.99615	—	4113,21	4209,13	4,08	2,38	.0237
51	.95538	—	161,28	254,79	6,49	39,24	.3912	1	.99773	—	8226,42	8322,48	3,94	1,20	.0120

TABLE I.

HEAT 67°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82167	100	—	100,00	—	100,00	,9959	100 + 50	,89387	100	41,11	137,88	3,23	72,53	,7223
1	,82399	—	0,82	100,72	0,10	99,29	,9889	51	,89480	—	41,93	138,66	3,27	72,12	,7183
2	,82625	—	1,65	101,44	0,21	98,58	,9819	52	,89568	—	42,76	139,44	3,32	71,71	,7143
3	,82845	—	2,47	102,16	0,31	97,88	,9750	53	,89657	—	43,58	140,21	3,37	71,31	,7103
4	,83059	—	3,29	102,89	0,40	97,20	,9681	54	,89744	—	44,40	140,99	3,41	70,92	,7064
100 + 5	,83268	—	4,11	103,62	0,49	96,51	,9612	100 + 55	,89830	—	45,22	141,77	3,45	70,53	,7025
6	,83471	—	4,94	104,35	0,59	95,84	,9546	56	,89914	—	46,04	142,55	3,49	70,14	,6987
7	,83669	—	5,76	105,08	0,68	95,17	,9479	57	,89997	—	46,86	143,34	3,52	69,76	,6949
8	,83864	—	6,58	105,82	0,76	94,50	,9413	58	,90079	—	47,69	144,12	3,57	69,38	,6911
9	,84054	—	7,40	106,56	0,84	93,85	,9347	59	,90160	—	48,51	144,90	3,61	69,01	,6874
100 + 10	,84237	—	8,22	107,30	0,92	93,20	,9282	100 + 60	,90239	—	49,33	145,68	3,65	68,64	,6836
11	,84417	—	9,04	108,04	1,00	92,56	,9219	61	,90317	—	50,15	146,47	3,68	68,27	,6800
12	,84593	—	9,87	108,79	1,08	91,92	,9155	62	,90394	—	50,98	147,25	3,73	67,91	,6763
13	,84765	—	10,69	109,54	1,15	91,29	,9093	63	,90470	—	51,80	148,04	3,76	67,55	,6727
14	,84932	—	11,50	110,29	1,21	90,67	,9031	64	,90545	—	52,62	148,82	3,80	67,19	,6692
100 + 15	,85096	—	12,33	111,04	1,29	90,06	,8970	100 + 65	,90619	—	53,45	149,61	3,84	66,84	,6657
16	,85259	—	13,16	111,79	1,37	89,45	,8909	66	,90693	—	54,27	150,39	3,88	66,49	,6622
17	,85419	—	13,98	112,55	1,43	88,85	,8849	67	,90765	—	55,09	151,18	3,91	66,14	,6588
18	,85576	—	14,80	113,30	1,50	88,26	,8790	68	,90837	—	55,91	151,96	3,95	65,80	,6554
19	,85730	—	15,62	114,05	1,57	87,67	,8732	69	,90909	—	56,73	152,75	3,98	65,46	,6520
100 + 20	,85880	—	16,44	114,81	1,63	87,10	,8674	100 + 70	,90978	—	57,55	153,53	4,02	65,13	,6487
21	,86028	—	17,26	115,57	1,69	86,53	,8617	71	,91048	—	58,37	154,31	4,06	64,80	,6454
22	,86174	—	18,09	116,32	1,77	85,96	,8562	72	,91116	—	59,20	155,11	4,09	64,47	,6421
23	,86316	—	18,91	117,08	1,83	85,40	,8506	73	,91181	—	60,02	155,90	4,12	64,14	,6389
24	,86455	—	19,73	117,85	1,88	84,85	,8451	74	,91248	—	60,84	156,69	4,15	63,82	,6357
100 + 25	,86592	—	20,56	118,61	1,95	84,30	,8397	100 + 75	,91312	—	61,67	157,47	4,20	63,50	,6325
26	,86727	—	21,38	119,37	2,01	83,77	,8343	76	,91377	—	62,49	158,26	4,23	63,19	,6293
27	,86860	—	22,20	120,14	2,06	83,24	,8290	77	,91440	—	63,31	159,05	4,26	62,87	,6262
28	,86991	—	23,03	120,90	2,13	82,71	,8238	78	,91503	—	64,13	159,83	4,30	62,56	,6231
29	,87119	—	23,85	121,67	2,18	82,19	,8186	79	,91566	—	64,96	160,63	4,33	62,25	,6200
100 + 30	,87245	—	24,67	122,44	2,23	81,68	,8135	100 + 80	,91625	—	65,78	161,42	4,36	61,95	,6170
31	,87369	—	25,49	123,20	2,29	81,17	,8083	81	,91688	—	66,60	162,21	4,39	61,65	,6140
32	,87490	—	26,31	123,97	2,34	80,67	,8033	82	,91747	—	67,42	162,99	4,43	61,35	,6110
33	,87612	—	27,14	124,74	2,40	80,17	,7985	83	,91807	—	68,24	163,78	4,46	61,06	,6080
34	,87729	—	27,96	125,51	2,45	79,68	,7936	84	,91866	—	69,06	164,58	4,48	60,77	,6051
100 + 35	,87845	—	28,78	126,27	2,51	79,19	,7887	100 + 85	,91924	—	69,89	165,37	4,52	60,47	,6023
36	,87959	—	29,59	127,04	2,55	78,71	,7840	86	,91980	—	70,71	166,16	4,55	60,18	,5994
37	,88070	—	30,42	127,82	2,60	78,24	,7792	87	,92035	—	71,53	166,95	4,58	59,90	,5966
38	,88180	—	31,24	128,59	2,65	77,77	,7745	88	,92090	—	72,36	167,74	4,62	59,62	,5938
39	,88289	—	32,07	129,36	2,71	77,31	,7699	89	,92144	—	73,18	168,54	4,64	59,34	,5910
100 + 40	,88395	—	32,89	130,13	2,76	76,84	,7654	100 + 90	,92198	—	74,00	169,33	4,67	59,06	,5882
41	,88502	—	33,71	130,90	2,81	76,39	,7608	91	,92252	—	74,83	170,12	4,71	58,78	,5855
42	,88607	—	34,54	131,67	2,87	75,94	,7564	92	,92304	—	75,65	170,91	4,74	58,51	,5828
43	,88711	—	35,36	132,45	2,91	75,50	,7520	93	,92358	—	76,47	171,70	4,77	58,24	,5801
44	,88813	—	36,18	133,22	2,96	75,06	,7476	94	,92410	—	77,29	172,50	4,79	57,97	,5774
100 + 45	,88912	—	37,00	133,99	3,01	74,63	,7433	100 + 95	,92462	—	78,10	173,29	4,81	57,71	,5747
46	,89012	—	37,82	134,77	3,05	74,20	,7390	96	,92512	—	78,92	174,07	4,85	57,45	,5722
47	,89108	—	38,64	135,55	3,09	73,77	,7348	97	,92562	—	79,74	174,86	4,88	57,19	,5696
48	,89203	—	39,46	136,32	3,14	73,35	,7306	98	,92611	—	80,56	175,65	4,91	56,93	,5670
49	,89297	—	40,29	137,10	3,19	72,94	,7265	99	,92660	—	81,39	176,45	4,94	56,67	,5644

TABLE II.

HEAT 67°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92709	100	82,22	177,25	4,97	56,42	.5619	100 + 50	.95568	100	164,45	257,93	6,52	38,77	.3861
99	.92758	—	83,05	178,06	4,99	56,16	.5594	49	.95634	—	167,81	261,25	6,56	38,28	.3812
98	.92808	—	83,90	178,88	5,02	55,90	.5568	48	.95699	—	171,30	264,72	6,58	37,77	.3762
97	.92857	—	84,77	179,72	5,05	55,64	.5542	47	.95765	—	174,94	268,35	6,59	37,26	.3711
96	.92906	—	85,64	180,57	5,07	55,38	.5516	46	.95831	—	178,74	272,13	6,61	36,74	.3660
100 + 95	.92956	—	86,55	181,44	5,11	55,12	.5489	100 + 45	.95898	—	182,72	276,09	6,63	36,22	.3608
94	.93004	—	87,47	182,33	5,14	54,84	.5462	44	.95964	—	186,87	280,21	6,66	35,68	.3555
93	.93053	—	88,41	183,24	5,17	54,57	.5435	43	.96031	—	191,22	284,54	6,68	35,14	.3500
92	.93102	—	89,37	184,18	5,19	54,29	.5407	42	.96097	—	195,77	289,09	6,68	34,59	.3445
91	.93152	—	90,35	185,14	5,21	54,01	.5379	41	.96163	—	200,55	293,85	6,70	34,03	.3390
100 + 90	.93200	—	91,36	186,10	5,26	53,73	.5351	100 + 40	.96230	—	205,56	298,85	6,71	33,46	.3333
89	.93253	—	92,38	187,11	5,27	53,44	.5323	39	.96297	—	210,83	304,11	6,72	32,88	.3275
88	.93305	—	93,43	188,13	5,30	53,15	.5294	38	.96364	—	216,38	309,65	6,73	32,29	.3216
87	.93357	—	94,51	189,18	5,33	52,86	.5265	37	.96431	—	222,23	315,50	6,73	31,69	.3157
86	.93410	—	95,61	190,25	5,36	52,56	.5235	36	.96498	—	228,40	321,67	6,73	31,08	.3096
100 + 85	.93463	—	96,74	191,34	5,40	52,26	.5205	100 + 35	.96566	—	234,93	328,19	6,74	30,47	.3035
84	.93517	—	97,89	192,46	5,43	51,96	.5175	34	.96634	—	241,84	335,11	6,73	29,84	.2972
83	.93572	—	99,06	193,61	5,45	51,65	.5144	33	.96702	—	249,16	342,48	6,68	29,20	.2908
82	.93627	—	100,27	194,79	5,48	51,34	.5113	32	.96771	—	256,95	350,28	6,67	28,55	.2843
81	.93683	—	101,51	195,99	5,52	51,02	.5082	31	.96840	—	265,23	358,58	6,65	27,89	.2777
100 + 80	.93740	—	102,78	197,22	5,56	50,70	.5050	100 + 30	.96911	—	274,08	367,41	6,67	27,22	.2711
79	.93795	—	104,08	198,49	5,59	50,38	.5018	29	.96980	—	283,53	376,87	6,66	26,53	.2643
78	.93851	—	105,41	199,79	5,62	50,05	.4985	28	.97050	—	293,66	387,03	6,63	25,84	.2573
77	.93906	—	106,78	201,13	5,65	49,72	.4952	27	.97122	—	304,54	397,96	6,58	25,13	.2503
76	.93962	—	108,19	202,51	5,68	49,38	.4918	26	.97194	—	316,25	409,69	6,56	24,41	.2431
100 + 75	.94018	—	109,63	203,92	5,71	49,04	.4884	100 + 25	.97266	—	328,89	422,37	6,52	23,68	.2358
74	.94076	—	111,10	205,37	5,73	48,70	.4850	24	.97341	—	342,60	436,12	6,48	22,93	.2284
73	.94134	—	112,62	206,85	5,77	48,34	.4815	23	.97416	—	357,50	451,07	6,43	22,17	.2208
72	.94192	—	114,19	208,39	5,80	47,99	.4780	22	.97493	—	373,74	467,36	6,38	21,39	.2131
71	.94251	—	115,80	209,97	5,83	47,63	.4744	21	.97572	—	391,55	485,22	6,32	20,61	.2052
100 + 70	.94310	—	117,46	211,59	5,87	47,27	.4707	100 + 20	.97652	—	411,12	504,85	6,27	19,80	.1973
69	.94370	—	119,15	213,25	5,90	46,89	.4670	19	.97732	—	432,76	526,57	6,19	18,99	.1892
68	.94430	—	120,90	214,97	5,93	46,51	.4633	18	.97814	—	456,80	550,67	6,13	18,16	.1808
67	.94491	—	122,71	216,75	5,96	46,14	.4595	17	.97899	—	483,68	577,63	6,05	17,31	.1724
66	.94552	—	124,58	218,57	6,01	45,76	.4557	16	.97986	—	513,91	607,94	5,97	16,45	.1638
100 + 65	.94614	—	126,50	220,45	6,05	45,37	.4518	100 + 15	.98076	—	548,17	642,30	5,87	15,57	.1551
64	.94676	—	128,47	222,39	6,08	44,97	.4478	14	.98166	—	587,32	681,57	5,75	14,67	.1462
63	.94738	—	130,50	224,40	6,10	44,56	.4439	13	.98261	—	632,50	726,84	5,64	13,76	.1370
62	.94800	—	132,61	226,47	6,14	44,15	.4398	12	.98360	—	685,21	779,67	5,54	12,82	.1277
61	.94862	—	134,78	228,61	6,17	43,75	.4357	11	.98462	—	747,50	842,08	5,42	11,87	.1183
100 + 60	.94925	—	137,03	230,82	6,21	43,33	.4315	100 + 10	.98566	—	822,25	916,95	5,30	10,90	.1086
59	.94989	—	139,36	233,11	6,25	42,90	.4273	9	.98677	—	913,62	1008,46	5,16	9,91	.0988
58	.95053	—	141,75	235,48	6,27	42,46	.4230	8	.98793	—	1027,81	1122,80	5,01	8,91	.0887
57	.95117	—	144,24	237,93	6,31	42,02	.4186	7	.98914	—	1174,65	1269,77	4,88	7,88	.0784
56	.95182	—	146,83	240,48	6,35	41,58	.4142	6	.99039	—	1370,42	1465,69	4,73	6,82	.0679
100 + 55	.95247	—	149,50	243,12	6,38	41,13	.4096	100 + 5	.99170	—	1644,51	1739,93	4,58	5,74	.0572
54	.95311	—	152,23	245,84	6,39	40,67	.4051	4	.99308	—	2055,63	2151,21	4,42	4,65	.0463
53	.95375	—	155,09	248,68	6,41	40,21	.4005	3	.99453	—	2740,85	2836,58	4,27	3,53	.0351
52	.95439	—	158,09	251,66	6,43	39,73	.3958	2	.99604	—	4111,27	4207,16	4,11	2,38	.0237
51	.95504	—	161,21	254,73	6,48	39,25	.3910	1	.99762	—	8221,55	8318,57	3,98	1,20	.0120

TABLE I.

HEAT 68°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82119	100	—	100,00	—	100,00	,9954	100 + 50	,89342	100	41,09	137,87	3,22	72,53	,7220
1	,82351	—	0,82	100,72	0,10	99,29	,9883	51	,89434	—	41,91	138,65	3,26	72,13	,7180
2	,82577	—	1,64	101,44	0,20	98,58	,9813	52	,89523	—	42,74	139,43	3,31	71,72	,7140
3	,82797	—	2,47	102,16	0,31	97,88	,9744	53	,89612	—	43,56	140,20	3,36	71,32	,7099
4	,83011	—	3,29	102,89	0,40	97,20	,9676	54	,89699	—	44,38	140,98	3,40	70,93	,7060
100 + 5	,83221	—	4,11	103,62	0,49	96,51	,9607	100 + 55	,89785	—	45,20	141,76	3,44	70,54	,7021
6	,83423	—	4,94	104,35	0,59	95,84	,9540	56	,89869	—	46,02	142,54	3,48	70,15	,6983
7	,83621	—	5,76	105,08	0,68	95,17	,9474	57	,89952	—	46,84	143,33	3,51	69,77	,6945
8	,83816	—	6,58	105,82	0,76	94,50	,9408	58	,90034	—	47,66	144,11	3,55	69,39	,6908
9	,84006	—	7,40	106,56	0,84	93,85	,9343	59	,90115	—	48,48	144,89	3,59	69,02	,6871
100 + 10	,84189	—	8,22	107,30	0,92	93,20	,9277	100 + 60	,90194	—	49,31	145,67	3,64	68,65	,6833
11	,84369	—	9,04	108,04	1,00	92,56	,9214	61	,90272	—	50,13	146,46	3,67	68,28	,6796
12	,84544	—	9,86	108,79	1,07	91,92	,9150	62	,90349	—	50,95	147,24	3,71	67,91	,6760
13	,84716	—	10,68	109,54	1,14	91,29	,9088	63	,90425	—	51,77	148,02	3,75	67,55	,6724
14	,84884	—	11,50	110,29	1,21	90,67	,9026	64	,90500	—	52,59	148,81	3,78	67,20	,6689
100 + 15	,85048	—	12,33	111,04	1,29	90,06	,8965	100 + 65	,90574	—	53,42	149,59	3,83	66,85	,6654
16	,85211	—	13,15	111,79	1,36	89,45	,8904	66	,90648	—	54,24	150,37	3,87	66,50	,6619
17	,85371	—	13,97	112,55	1,42	88,86	,8844	67	,90721	—	55,06	151,16	3,90	66,15	,6585
18	,85528	—	14,79	113,30	1,49	88,26	,8785	68	,90793	—	55,88	151,94	3,94	65,81	,6551
19	,85682	—	15,61	114,05	1,56	87,68	,8727	69	,90865	—	56,70	152,73	3,97	65,47	,6517
100 + 20	,85832	—	16,43	114,81	1,62	87,10	,8670	100 + 70	,90934	—	57,53	153,52	4,01	65,14	,6484
21	,85980	—	17,25	115,57	1,68	86,53	,8613	71	,91004	—	58,35	154,30	4,05	64,81	,6451
22	,86126	—	18,08	116,32	1,76	85,97	,8557	72	,91072	—	59,17	155,09	4,08	64,48	,6418
23	,86269	—	18,90	117,08	1,82	85,41	,8502	73	,91138	—	59,99	155,88	4,11	64,15	,6386
24	,86408	—	19,72	117,84	1,88	84,85	,8446	74	,91204	—	60,81	156,67	4,14	63,83	,6354
100 + 25	,86545	—	20,55	118,61	1,94	84,31	,8392	100 + 75	,91268	—	61,64	157,45	4,19	63,51	,6322
26	,86680	—	21,37	119,37	2,00	83,77	,8338	76	,91332	—	62,46	158,24	4,22	63,19	,6290
27	,86813	—	22,19	120,13	2,06	83,24	,8285	77	,91396	—	63,28	159,03	4,25	62,88	,6259
28	,86944	—	23,02	120,90	2,12	82,71	,8234	78	,91459	—	64,10	159,82	4,28	62,57	,6228
29	,87073	—	23,84	121,66	2,18	82,19	,8182	79	,91521	—	64,93	160,61	4,32	62,26	,6197
100 + 30	,87198	—	24,66	122,43	2,23	81,68	,8130	100 + 80	,91581	—	65,75	161,40	4,35	61,96	,6167
31	,87323	—	25,47	123,19	2,28	81,17	,8079	81	,91643	—	66,57	162,19	4,38	61,66	,6137
32	,87444	—	26,30	123,96	2,34	80,67	,8029	82	,91703	—	67,39	162,97	4,42	61,36	,6107
33	,87565	—	27,12	124,73	2,39	80,17	,7981	83	,91763	—	68,21	163,77	4,44	61,06	,6077
34	,87683	—	27,94	125,50	2,44	79,68	,7932	84	,91822	—	69,03	164,56	4,47	60,77	,6048
100 + 35	,87799	—	28,77	126,27	2,50	79,19	,7883	100 + 85	,91881	—	69,85	165,35	4,50	60,48	,6020
36	,87912	—	29,58	127,04	2,54	78,71	,7836	86	,91937	—	70,67	166,14	4,53	60,19	,6001
37	,88023	—	30,41	127,81	2,60	78,24	,7788	87	,91992	—	71,50	166,93	4,57	59,91	,5983
38	,88133	—	31,23	128,58	2,65	77,77	,7741	88	,92047	—	72,32	167,72	4,60	59,62	,5955
39	,88242	—	32,05	129,35	2,70	77,31	,7695	89	,92101	—	73,14	168,52	4,62	59,34	,5927
100 + 40	,88348	—	32,87	130,13	2,74	76,85	,7650	100 + 90	,92155	—	73,96	169,31	4,65	59,06	,5899
41	,88455	—	33,69	130,89	2,80	76,39	,7604	91	,92209	—	74,79	170,10	4,69	58,79	,5873
42	,88560	—	34,52	131,67	2,85	75,94	,7560	92	,92262	—	75,61	170,89	4,72	58,52	,5848
43	,88664	—	35,34	132,44	2,90	75,50	,7516	93	,92315	—	76,43	171,68	4,75	58,25	,5825
44	,88766	—	36,16	133,21	2,95	75,06	,7472	94	,92367	—	77,25	172,48	4,77	57,98	,5802
100 + 45	,88866	—	36,99	133,99	3,00	74,63	,7429	100 + 95	,92419	—	78,07	173,27	4,80	57,71	,5778
46	,88966	—	37,80	134,76	3,04	74,20	,7386	96	,92469	—	78,88	174,05	4,83	57,45	,5753
47	,89062	—	38,62	135,54	3,08	73,78	,7344	97	,92519	—	79,70	174,84	4,86	57,19	,5729
48	,89157	—	39,44	136,31	3,13	73,36	,7303	98	,92568	—	80,52	175,63	4,89	56,93	,5707
49	,89251	—	40,27	137,09	3,18	72,94	,7261	99	,92617	—	81,35	176,43	4,92	56,67	,5684

TABLE II.

HEAT 68°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92666	100	82.18	177.23	4.95	56.42	.5616	100 + 50	.95535	100	164.37	257.87	6.50	38.78	.3860
99	.92715	—	83.01	178.04	4.97	56.17	.5591	49	.95601	—	167.73	261.19	6.54	38.29	.3811
98	.92765	—	83.86	178.86	5.00	55.91	.5566	48	.95667	—	171.22	264.66	6.56	37.78	.3761
97	.92814	—	84.73	179.69	5.04	55.64	.5539	47	.95733	—	174.86	268.28	6.58	37.27	.3710
96	.92864	—	85.60	180.54	5.06	55.38	.5513	46	.95799	—	178.66	272.06	6.60	36.75	.3659
100 + 95	.92913	—	86.51	181.41	5.10	55.12	.5487	100 + 45	.95866	—	182.64	276.02	6.62	36.23	.3606
94	.92962	—	87.43	182.30	5.13	54.85	.5460	44	.95933	—	186.78	280.14	6.64	35.69	.3553
93	.93011	—	88.37	183.22	5.15	54.58	.5433	43	.96000	—	191.13	284.47	6.66	35.15	.3499
92	.93060	—	89.33	184.15	5.18	54.30	.5405	42	.96067	—	195.68	289.01	6.67	34.60	.3444
91	.93110	—	90.31	185.11	5.20	54.02	.5377	41	.96133	—	200.46	293.77	6.69	34.04	.3389
100 + 90	.93158	—	91.31	186.08	5.23	53.74	.5349	100 + 40	.96201	—	205.46	298.77	6.69	33.47	.3332
89	.93211	—	92.33	187.09	5.24	53.45	.5321	39	.96268	—	210.73	304.03	6.70	32.89	.3274
88	.93263	—	93.39	188.11	5.28	53.16	.5292	38	.96336	—	216.28	309.56	6.72	32.30	.3216
87	.93315	—	94.46	189.15	5.31	52.87	.5263	37	.96403	—	222.12	315.41	6.71	31.70	.3156
86	.93368	—	95.56	190.22	5.34	52.57	.5233	36	.96470	—	228.29	321.58	6.71	31.09	.3095
100 + 85	.93421	—	96.69	191.31	5.38	52.27	.5203	100 + 35	.96539	—	234.82	328.09	6.73	30.48	.3034
84	.93475	—	97.84	192.43	5.41	51.97	.5173	34	.96607	—	241.72	335.01	6.71	29.85	.2971
83	.93530	—	99.01	193.58	5.43	51.66	.5142	33	.96676	—	249.04	342.37	6.67	29.21	.2908
82	.93586	—	100.22	194.76	5.46	51.34	.5111	32	.96745	—	256.83	350.17	6.66	28.56	.2843
81	.93642	—	101.46	195.96	5.50	51.03	.5080	31	.96815	—	265.11	358.46	6.65	27.90	.2777
100 + 80	.93698	—	102.73	197.19	5.54	50.71	.5048	100 + 30	.96886	—	273.95	367.29	6.66	27.23	.2710
79	.93754	—	104.03	198.46	5.57	50.39	.5016	29	.96956	—	283.40	376.75	6.65	26.54	.2642
78	.93810	—	105.36	199.76	5.60	50.06	.4983	28	.97027	—	293.52	386.91	6.61	25.85	.2573
77	.93865	—	105.73	201.10	5.63	49.72	.4950	27	.97099	—	304.39	397.83	6.56	25.14	.2502
76	.93922	—	108.14	202.48	5.66	49.38	.4916	26	.97172	—	316.10	409.56	6.54	24.42	.2430
100 + 75	.93978	—	109.58	203.89	5.69	49.04	.4882	100 + 25	.97245	—	328.74	422.22	6.52	23.69	.2357
74	.94036	—	111.05	205.34	5.71	48.70	.4848	24	.97320	—	342.44	435.96	6.48	22.94	.2283
73	.94094	—	112.57	206.82	5.75	48.35	.4813	23	.97396	—	357.33	450.90	6.43	22.18	.2208
72	.94153	—	114.14	208.36	5.78	47.99	.4778	22	.97474	—	373.57	467.18	6.39	21.40	.2131
71	.94212	—	115.75	209.94	5.81	47.64	.4742	21	.97553	—	391.36	485.03	6.33	20.61	.2052
100 + 70	.94271	—	117.40	211.55	5.85	47.27	.4705	100 + 20	.97634	—	410.93	504.65	6.28	19.81	.1972
69	.94331	—	119.10	213.21	5.89	46.90	.4668	19	.97714	—	432.56	526.36	6.20	19.00	.1891
68	.94392	—	120.84	214.93	5.91	46.52	.4631	18	.97797	—	456.59	550.45	6.14	18.17	.1808
67	.94453	—	122.65	216.71	5.94	46.15	.4593	17	.97882	—	483.45	577.39	6.06	17.32	.1724
66	.94514	—	124.52	218.53	5.99	45.76	.4555	16	.97970	—	513.67	607.69	5.98	16.46	.1638
100 + 65	.94576	—	126.44	220.41	6.03	45.37	.4516	100 + 15	.98060	—	547.91	642.03	5.88	15.58	.1550
64	.94638	—	128.41	222.35	6.06	44.97	.4477	14	.98151	—	587.04	681.28	5.76	14.68	.1461
63	.94700	—	130.44	224.35	6.09	44.57	.4437	13	.98246	—	632.20	726.53	5.67	13.76	.1370
62	.94762	—	132.54	226.43	6.11	44.16	.4396	12	.98346	—	684.89	779.33	5.56	12.83	.1277
61	.94825	—	134.72	228.56	6.16	43.75	.4355	11	.98448	—	747.15	841.71	5.44	11.88	.1183
100 + 60	.94888	—	136.97	230.77	6.20	43.34	.4313	100 + 10	.98553	—	821.86	916.54	5.32	10.91	.1086
59	.94952	—	139.29	233.07	6.22	42.91	.4271	9	.98664	—	913.19	1008.01	5.18	9.92	.0987
58	.95016	—	141.68	235.44	6.24	42.47	.4228	8	.98780	—	1027.33	1122.29	5.04	8.91	.0887
57	.95080	—	144.17	237.88	6.29	42.03	.4184	7	.98901	—	1174.10	1269.19	4.91	7.88	.0784
56	.95146	—	146.76	240.43	6.33	41.59	.4140	6	.99027	—	1369.78	1465.02	4.76	6.83	.0679
100 + 55	.95211	—	149.43	243.07	6.36	41.14	.4095	100 + 5	.99158	—	1643.74	1739.13	4.61	5.75	.0572
54	.95276	—	152.16	245.79	6.37	40.68	.4049	4	.99296	—	2054.67	2150.23	4.44	4.65	.0463
53	.95340	—	155.02	248.63	6.39	40.21	.4003	3	.99441	—	2739.56	2835.26	4.30	3.53	.0351
52	.95405	—	158.01	251.60	6.41	39.74	.3956	2	.99593	—	4109.34	4205.19	4.15	2.38	.0237
51	.95470	—	161.13	254.67	6.46	39.26	.3908	1	.99751	—	8218.68	8314.68	4.00	1.20	.0120



TABLE I.

HEAT 69°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82071	100	—	100,00	—	100,00	,9948	100 + 50	,89297	100	41,07	137,86	3,21	72,54	,7216
1	,82303	—	0,82	100,72	0,10	99,29	,9877	51	,89389	—	41,89	138,64	3,25	72,13	,7176
2	,82529	—	1,64	101,44	0,20	98,58	,9807	52	,89478	—	42,72	139,42	3,30	71,72	,7136
3	,82749	—	2,46	102,16	0,30	97,89	,9738	53	,89567	—	43,54	140,19	3,35	71,32	,7096
4	,82963	—	3,28	102,88	0,40	97,20	,9670	54	,89654	—	44,36	140,97	3,39	70,93	,7057
100 + 5	,83173	—	4,11	103,62	0,49	96,51	,9601	100 + 55	,89740	—	45,18	141,75	3,43	70,54	,7018
6	,83375	—	4,93	104,34	0,59	95,84	,9534	56	,89824	—	46,00	142,53	3,47	70,15	,6980
7	,83573	—	5,75	105,08	0,67	95,17	,9468	57	,89907	—	46,82	143,32	3,50	69,77	,6942
8	,83768	—	6,58	105,82	0,76	94,51	,9402	58	,89989	—	47,64	144,10	3,54	69,39	,6904
9	,83957	—	7,40	106,55	0,85	93,85	,9337	59	,90070	—	48,46	144,88	3,58	69,02	,6867
100 + 10	,84141	—	8,22	107,29	0,93	93,20	,9272	100 + 60	,90149	—	49,29	145,66	3,63	68,66	,6829
11	,84320	—	9,03	108,04	0,99	92,56	,9208	61	,90227	—	50,11	146,45	3,66	68,29	,6793
12	,84495	—	9,86	108,79	1,07	91,93	,9145	62	,90304	—	50,93	147,23	3,70	67,92	,6756
13	,84666	—	10,68	109,54	1,14	91,30	,9083	63	,90380	—	51,75	148,01	3,74	67,56	,6720
14	,84835	—	11,49	110,28	1,21	90,68	,9021	64	,90455	—	52,57	148,80	3,77	67,20	,6685
100 + 15	,84999	—	12,32	111,04	1,28	90,06	,8960	100 + 65	,90529	—	53,39	149,58	3,81	66,85	,6650
16	,85163	—	13,15	111,79	1,36	89,46	,8899	66	,90603	—	54,21	150,36	3,85	66,50	,6616
17	,85323	—	13,96	112,54	1,42	88,86	,8839	67	,90677	—	55,03	151,15	3,88	66,15	,6582
18	,85480	—	14,78	113,29	1,49	88,27	,8780	68	,90749	—	55,85	151,93	3,92	65,81	,6548
19	,85634	—	15,61	114,05	1,56	87,68	,8722	69	,90821	—	56,67	152,71	3,96	65,48	,6514
100 + 20	,85784	—	16,42	114,81	1,61	87,10	,8665	100 + 70	,90890	—	57,50	153,51	3,99	65,14	,6481
21	,85932	—	17,24	115,56	1,68	86,53	,8608	71	,90960	—	58,32	154,28	4,04	64,81	,6448
22	,86078	—	18,07	116,31	1,76	85,97	,8552	72	,91028	—	59,14	155,07	4,07	64,48	,6415
23	,86221	—	18,89	117,07	1,82	85,41	,8497	73	,91094	—	59,96	155,86	4,10	64,15	,6383
24	,86361	—	19,71	117,84	1,87	84,86	,8442	74	,91160	—	60,78	156,66	4,12	63,83	,6351
100 + 25	,86498	—	20,54	118,60	1,94	84,31	,8388	100 + 75	,91224	—	61,61	157,44	4,17	63,51	,6319
26	,86633	—	21,36	119,36	2,00	83,78	,8334	76	,91288	—	62,43	158,23	4,20	63,20	,6287
27	,86766	—	22,18	120,13	2,05	83,25	,8281	77	,91352	—	63,25	159,01	4,24	62,88	,6256
28	,86897	—	23,00	120,89	2,11	82,72	,8229	78	,91415	—	64,07	159,80	4,27	62,57	,6225
29	,87026	—	23,83	121,66	2,17	82,20	,8177	79	,91477	—	64,90	160,59	4,31	62,26	,6194
100 + 30	,87151	—	24,64	122,42	2,22	81,69	,8126	100 + 80	,91537	—	65,72	161,38	4,34	61,96	,6164
31	,87276	—	25,46	123,19	2,27	81,18	,8075	81	,91599	—	66,54	162,17	4,37	61,66	,6134
32	,87398	—	26,28	123,96	2,32	80,68	,8025	82	,91659	—	67,36	162,95	4,41	61,36	,6104
33	,87518	—	27,11	124,73	2,38	80,18	,7976	83	,91719	—	68,18	163,75	4,43	61,07	,6074
34	,87636	—	27,93	125,50	2,43	79,68	,7927	84	,91778	—	69,00	164,54	4,46	60,77	,6045
100 + 35	,87752	—	28,75	126,26	2,49	79,19	,7879	100 + 85	,91837	—	69,82	165,33	4,49	60,48	,6017
36	,87865	—	29,57	127,03	2,54	78,71	,7832	86	,91894	—	70,64	166,12	4,52	60,20	,5988
37	,87976	—	30,39	127,80	2,59	78,24	,7784	87	,91949	—	71,46	166,91	4,55	59,91	,5960
38	,88086	—	31,21	128,58	2,63	77,77	,7737	88	,92004	—	72,29	167,70	4,59	59,63	,5932
39	,88195	—	32,04	129,35	2,69	77,31	,7691	89	,92058	—	73,11	168,50	4,61	59,35	,5904
100 + 40	,88301	—	32,86	130,12	2,74	76,85	,7646	100 + 90	,92112	—	73,93	169,29	4,64	59,07	,5876
41	,88408	—	33,68	130,89	2,79	76,39	,7600	91	,92166	—	74,75	170,08	4,67	58,79	,5849
42	,88513	—	34,51	131,66	2,85	75,95	,7556	92	,92219	—	75,57	170,87	4,70	58,52	,5822
43	,88617	—	35,33	132,43	2,90	75,51	,7512	93	,92272	—	76,39	171,66	4,73	58,25	,5795
44	,88719	—	36,15	133,21	2,94	75,07	,7468	94	,92324	—	77,22	172,46	4,76	57,98	,5769
100 + 45	,88818	—	36,97	133,98	2,99	74,64	,7425	100 + 95	,92376	—	78,03	173,25	4,78	57,72	,5742
46	,88919	—	37,78	134,76	3,02	74,21	,7382	96	,92426	—	78,84	174,03	4,81	57,46	,5716
47	,89016	—	38,60	135,53	3,07	73,78	,7340	97	,92476	—	79,66	174,82	4,84	57,20	,5691
48	,89111	—	39,42	136,30	3,12	73,36	,7299	98	,92525	—	80,48	175,61	4,87	56,94	,5665
49	,89205	—	40,25	137,08	3,17	72,95	,7257	99	,92574	—	81,31	176,41	4,90	56,68	,5639

TABLE II.

HEAT 69°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92623	100	82,14	177,21	4,93	56,43	.5613	100 + 50	.95502	100	164,29	257,81	6,48	38,79	.3859
99	.92672	—	82,97	178,02	4,95	56,17	.5588	49	.95568	—	167,65	261,13	6,52	38,30	.3810
98	.92722	—	83,82	178,84	4,98	55,91	.5563	48	.95634	—	171,14	264,60	6,54	37,79	.3760
97	.92772	—	84,69	179,67	5,02	55,65	.5537	47	.95701	—	174,78	268,21	6,57	37,28	.3709
96	.92822	—	85,57	180,52	5,05	55,39	.5511	46	.95767	—	178,58	271,99	6,59	36,76	.3658
100 + 95	.92870	—	86,47	181,39	5,08	55,13	.5484	100 + 45	.95834	—	182,56	275,95	6,61	36,24	.3605
94	.92920	—	87,39	182,28	5,11	54,86	.5457	44	.95902	—	186,69	280,07	6,62	35,70	.3552
93	.92969	—	88,33	183,20	5,13	54,58	.5430	43	.95969	—	191,04	284,40	6,64	35,16	.3498
92	.93018	—	89,29	184,13	5,16	54,31	.5402	42	.96037	—	195,59	288,94	6,65	34,61	.3443
91	.93068	—	90,27	185,08	5,19	54,03	.5374	41	.96104	—	200,36	293,69	6,67	34,05	.3387
100 + 90	.93116	—	91,27	186,06	5,21	53,74	.5346	100 + 40	.96172	—	205,36	298,09	6,67	33,48	.3330
89	.93169	—	92,29	187,06	5,23	53,46	.5318	39	.96240	—	210,63	303,94	6,69	32,90	.3273
88	.93221	—	93,34	188,09	5,25	53,17	.5290	38	.96308	—	216,18	309,48	6,70	32,31	.3215
87	.93273	—	94,42	189,12	5,30	52,87	.5260	37	.96375	—	222,02	315,32	6,70	31,71	.3155
86	.93326	—	95,51	190,19	5,32	52,58	.5230	36	.96443	—	228,18	321,49	6,69	31,10	.3094
100 + 85	.93379	—	96,64	191,28	5,36	52,28	.5200	100 + 35	.96511	—	234,71	327,99	6,72	30,49	.3033
84	.93434	—	97,79	192,40	5,39	51,98	.5170	34	.96580	—	241,61	334,91	6,70	29,86	.2970
83	.93489	—	98,96	193,55	5,41	51,67	.5140	33	.96650	—	248,93	342,26	6,67	29,22	.2907
82	.93545	—	100,17	194,73	5,44	51,35	.5109	32	.96720	—	256,71	350,05	6,66	28,57	.2842
81	.93601	—	101,41	195,93	5,48	51,04	.5078	31	.96790	—	264,99	358,35	6,64	27,91	.2776
100 + 80	.93657	—	102,68	197,16	5,52	50,72	.5046	100 + 30	.96861	—	273,82	367,17	6,65	27,24	.2709
79	.93713	—	103,98	198,43	5,55	50,39	.5013	29	.96932	—	283,27	376,63	6,64	26,55	.2641
78	.93769	—	105,31	199,73	5,58	50,06	.4981	28	.97004	—	293,38	386,79	6,59	25,86	.2572
77	.93825	—	106,68	201,07	5,61	49,73	.4948	27	.97077	—	304,25	397,70	6,55	25,15	.2502
76	.93882	—	108,09	202,45	5,64	49,39	.4914	26	.97150	—	315,95	409,43	6,52	24,43	.2430
100 + 75	.93938	—	109,53	203,86	5,67	49,05	.4880	100 + 25	.97224	—	328,59	422,07	6,52	23,70	.2357
74	.93996	—	111,00	205,31	5,69	48,71	.4846	24	.97300	—	342,28	435,80	6,48	22,95	.2283
73	.94055	—	112,52	206,79	5,73	48,36	.4811	23	.97376	—	357,16	450,73	6,43	22,19	.2207
72	.94114	—	114,09	208,32	5,77	48,00	.4776	22	.97455	—	373,40	467,00	6,40	21,41	.2130
71	.94173	—	115,70	209,90	5,80	47,64	.4740	21	.97534	—	391,18	484,84	6,34	20,62	.2052
100 + 70	.94232	—	117,35	211,51	5,84	47,28	.4703	100 + 20	.97615	—	410,74	504,45	6,29	19,82	.1972
69	.94293	—	119,04	213,17	5,87	46,91	.4666	19	.97696	—	432,36	526,15	6,21	19,01	.1890
68	.94354	—	120,79	214,90	5,89	46,53	.4629	18	.97780	—	456,38	550,23	6,15	18,17	.1807
67	.94415	—	122,60	216,67	5,93	46,16	.4591	17	.97865	—	483,22	577,15	6,07	17,33	.1723
66	.94476	—	124,46	218,49	5,97	45,77	.4553	16	.97954	—	513,43	607,44	5,99	16,46	.1637
100 + 65	.94538	—	126,38	220,37	6,01	45,38	.4514	100 + 15	.98044	—	547,65	641,76	5,89	15,58	.1550
64	.94600	—	128,35	222,31	6,04	44,98	.4475	14	.98136	—	586,77	680,99	5,78	14,68	.1461
63	.94662	—	130,38	224,31	6,07	44,58	.4435	13	.98232	—	631,90	726,22	5,68	13,77	.1370
62	.94725	—	132,48	226,38	6,10	44,17	.4394	12	.98332	—	684,57	778,99	5,58	12,84	.1277
61	.94788	—	134,66	228,52	6,14	43,76	.4353	11	.98434	—	746,80	841,34	5,46	11,88	.1182
100 + 60	.94851	—	136,91	230,74	6,17	43,34	.4311	100 + 10	.98540	—	821,48	916,13	5,35	10,91	.1086
59	.94915	—	139,22	233,02	6,20	42,91	.4269	9	.98651	—	912,76	1007,56	5,20	9,92	.0987
58	.94979	—	141,62	235,39	6,23	42,48	.4226	8	.98767	—	1026,85	1121,78	5,07	8,91	.0887
57	.95043	—	144,11	237,84	6,27	42,04	.4183	7	.98889	—	1173,55	1268,61	4,94	7,88	.0784
56	.95110	—	146,69	240,38	6,31	41,60	.4138	6	.99015	—	1369,14	1464,35	4,79	6,83	.0679
100 + 55	.95175	—	149,36	243,02	6,34	41,15	.4093	100 + 5	.99140	—	1642,97	1738,33	4,64	5,75	.0572
54	.95241	—	152,09	245,74	6,35	40,69	.4048	4	.99284	—	2053,70	2149,23	4,47	4,65	.0463
53	.95305	—	154,95	248,58	6,37	40,22	.4002	3	.99429	—	2738,28	2833,95	4,33	3,53	.0351
52	.95371	—	157,94	251,54	6,40	39,75	.3955	2	.99581	—	4107,42	4203,24	4,18	2,38	.0237
51	.95437	—	161,05	254,61	6,44	39,27	.3907	1	.99740	—	8214,83	8310,80	4,03	1,20	.0120

TABLE I.

HEAT 70°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,82023	100	—	100,00	—	100,00	,9942	100 + 50	,89252	100	41,05	137,85	3,20	72,54	,7212
1	,82255	—	0,82	100,72	0,10	99,29	,9871	51	,89343	—	41,88	138,63	3,25	72,14	,7172
2	,82481	—	1,64	101,44	0,20	98,58	,9801	52	,89433	—	42,70	139,41	3,29	71,73	,7132
3	,82701	—	2,46	102,16	0,30	97,89	,9732	53	,89522	—	43,52	140,18	3,34	71,33	,7092
4	,82915	—	3,28	102,88	0,40	97,20	,9664	54	,89609	—	44,34	140,96	3,38	70,94	,7053
100 + 5	,83124	—	4,10	103,61	0,49	96,52	,9596	100 + 55	,89695	—	45,16	141,74	3,42	70,55	,7014
6	,83327	—	4,93	104,34	0,59	95,84	,9529	56	,89779	—	45,98	142,52	3,46	70,16	,6976
7	,83525	—	5,75	105,08	0,67	95,17	,9462	57	,89862	—	46,80	143,31	3,49	69,78	,6938
8	,83719	—	6,57	105,81	0,76	94,51	,9396	58	,89944	—	47,62	144,09	3,53	69,40	,6900
9	,83908	—	7,39	106,55	0,84	93,85	,9331	59	,90025	—	48,44	144,87	3,57	69,03	,6863
100 + 10	,84092	—	8,21	107,29	0,92	93,20	,9266	100 + 60	,90104	—	49,27	145,65	3,62	68,66	,6826
11	,84271	—	9,03	108,04	0,99	92,56	,9202	61	,90182	—	50,09	146,44	3,65	68,29	,6789
12	,84446	—	9,85	108,78	1,07	91,93	,9139	62	,90259	—	50,91	147,22	3,69	67,92	,6753
13	,84618	—	10,67	109,54	1,13	91,30	,9077	63	,90335	—	51,73	148,00	3,73	67,56	,6717
14	,84786	—	11,49	110,28	1,21	90,68	,9015	64	,90410	—	52,55	148,79	3,76	67,21	,6682
100 + 15	,84951	—	12,32	111,04	1,28	90,06	,8954	100 + 65	,90484	—	53,37	149,57	3,80	66,86	,6647
16	,85114	—	13,14	111,79	1,35	89,46	,8894	66	,90558	—	54,19	150,35	3,84	66,51	,6612
17	,85274	—	13,96	112,54	1,42	88,86	,8834	67	,90632	—	55,01	151,14	3,87	66,16	,6578
18	,85431	—	14,78	113,29	1,49	88,27	,8775	68	,90705	—	55,83	151,92	3,91	65,82	,6544
19	,85585	—	15,60	114,04	1,56	87,68	,8717	69	,90777	—	56,65	152,70	3,95	65,49	,6510
100 + 20	,85736	—	16,42	114,80	1,62	87,11	,8660	100 + 70	,90847	—	57,48	153,49	3,99	65,15	,6477
21	,85884	—	17,24	115,56	1,68	86,54	,8603	71	,90916	—	58,30	154,27	4,03	64,82	,6444
22	,86030	—	18,06	116,31	1,75	85,97	,8547	72	,90984	—	59,12	155,06	4,06	64,49	,6411
23	,86173	—	18,88	117,07	1,81	85,41	,8492	73	,91050	—	59,94	155,85	4,09	64,16	,6379
24	,86313	—	19,71	117,83	1,88	84,86	,8437	74	,91116	—	60,76	156,64	4,12	63,84	,6347
100 + 25	,86451	—	20,53	118,60	1,93	84,32	,8383	100 + 75	,91181	—	61,58	157,42	4,16	63,52	,6316
26	,86586	—	21,35	119,36	1,99	83,78	,8330	76	,91245	—	62,40	158,21	4,19	63,21	,6284
27	,86719	—	22,17	120,12	2,05	83,25	,8277	77	,91308	—	63,22	159,00	4,22	62,89	,6253
28	,86850	—	22,99	120,89	2,10	82,72	,8225	78	,91370	—	64,04	159,79	4,25	62,58	,6222
29	,86979	—	23,81	121,65	2,16	82,20	,8173	79	,91432	—	64,87	160,58	4,29	62,27	,6191
100 + 30	,87105	—	24,63	122,41	2,22	81,69	,8122	100 + 80	,91493	—	65,69	161,37	4,32	61,97	,6161
31	,87229	—	25,45	123,18	2,27	81,18	,8071	81	,91554	—	66,51	162,16	4,35	61,67	,6131
32	,87351	—	26,27	123,95	2,32	80,68	,8021	82	,91615	—	67,33	162,94	4,39	61,37	,6101
33	,87471	—	27,10	124,72	2,38	80,18	,7972	83	,91675	—	68,15	163,73	4,42	61,08	,6072
34	,87589	—	27,92	125,49	2,43	79,69	,7923	84	,91734	—	68,97	164,52	4,45	60,78	,6043
100 + 35	,87705	—	28,74	126,25	2,49	79,20	,7875	100 + 85	,91793	—	69,79	165,31	4,48	60,49	,6014
36	,87818	—	29,56	127,02	2,54	78,72	,7827	86	,91850	—	70,61	166,10	4,51	60,20	,5985
37	,87929	—	30,38	127,80	2,58	78,25	,7780	87	,91906	—	71,43	166,89	4,54	59,92	,5957
38	,88039	—	31,20	128,57	2,63	77,78	,7733	88	,91961	—	72,26	167,68	4,58	59,64	,5929
39	,88147	—	32,02	129,34	2,68	77,32	,7687	89	,92015	—	73,08	168,48	4,60	59,36	,5901
100 + 40	,88254	—	32,84	130,11	2,73	76,86	,7641	100 + 90	,92069	—	73,90	169,27	4,63	59,08	,5874
41	,88361	—	33,66	130,88	2,78	76,40	,7596	91	,92123	—	74,72	170,06	4,66	58,80	,5846
42	,88466	—	34,49	131,65	2,84	75,95	,7551	92	,92176	—	75,54	170,85	4,69	58,53	,5819
43	,88570	—	35,31	132,43	2,88	75,51	,7507	93	,92229	—	76,36	171,64	4,72	58,26	,5792
44	,88672	—	36,13	133,20	2,93	75,07	,7464	94	,92281	—	77,18	172,44	4,74	57,99	,5766
100 + 45	,88773	—	36,95	133,97	2,98	74,64	,7421	100 + 95	,92333	—	78,00	173,23	4,77	57,73	,5739
46	,88872	—	37,77	134,75	3,02	74,21	,7378	96	,92383	—	78,81	174,01	4,80	57,47	,5713
47	,88969	—	38,59	135,52	3,07	73,79	,7336	97	,92433	—	79,63	174,80	4,83	57,21	,5688
48	,89065	—	39,41	136,30	3,11	73,37	,7295	98	,92482	—	80,45	175,59	4,86	56,95	,5662
49	,89159	—	40,23	137,07	3,16	72,95	,7253	99	,92531	—	81,28	176,39	4,89	56,69	,5636

TABLE II.

HEAT 70°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,92580	100	82,11	177,19	4,92	56,44	,5611	100 + 50	,95469	100	164,22	257,75	6,47	38,80	,3857
99	,92629	—	82,94	178,00	4,94	56,18	,5585	49	,95535	—	167,57	261,07	6,50	38,30	,3808
98	,92679	—	83,79	178,82	4,97	55,92	,5560	48	,95601	—	171,06	264,53	6,53	37,80	,3758
97	,92729	—	84,66	179,65	5,01	55,66	,5534	47	,95668	—	174,70	268,15	6,55	37,29	,3707
96	,92779	—	85,54	180,50	5,04	55,40	,5508	46	,95735	—	178,50	271,93	6,57	36,77	,3656
100 + 95	,92828	—	86,43	181,37	5,06	55,14	,5482	100 + 45	,95802	—	182,47	275,88	6,59	36,25	,3604
94	,92877	—	87,35	182,26	5,09	54,86	,5455	44	,95870	—	186,61	280,00	6,61	35,71	,3551
93	,92926	—	88,29	183,18	5,11	54,59	,5428	43	,95938	—	190,95	284,33	6,62	35,17	,3497
92	,92976	—	89,25	184,11	5,14	54,31	,5400	42	,96006	—	195,50	288,87	6,63	34,62	,3442
91	,93026	—	90,23	185,06	5,17	54,03	,5372	41	,96074	—	200,27	293,62	6,65	34,06	,3386
100 + 90	,93076	—	91,23	186,04	5,19	53,75	,5344	100 + 40	,96143	—	205,27	298,60	6,67	33,49	,3330
89	,93127	—	92,25	187,04	5,21	53,46	,5316	39	,96211	—	210,54	303,86	6,68	32,91	,3272
88	,93179	—	93,30	188,06	5,24	53,17	,5287	38	,96279	—	216,08	309,40	6,68	32,32	,3214
87	,93231	—	94,37	189,10	5,27	52,88	,5258	37	,96347	—	221,92	315,24	6,68	31,72	,3154
86	,93284	—	95,47	190,17	5,30	52,58	,5228	36	,96415	—	228,08	321,41	6,67	31,11	,3094
100 + 85	,93337	—	96,60	191,26	5,30	52,28	,5198	100 + 35	,96484	—	234,60	327,90	6,70	30,50	,3032
84	,93392	—	97,75	192,37	5,38	51,98	,5168	34	,96553	—	241,50	334,81	6,69	29,87	,2969
83	,93447	—	98,92	193,52	5,40	51,67	,5137	33	,96623	—	248,82	342,15	6,67	29,23	,2906
82	,93503	—	100,13	194,70	5,43	51,36	,5106	32	,96694	—	256,59	349,94	6,65	28,58	,2841
81	,93559	—	101,37	195,90	5,47	51,04	,5075	31	,96765	—	264,87	358,23	6,64	27,91	,2775
100 + 80	,93616	—	102,64	197,13	5,51	50,73	,5043	100 + 30	,96836	—	273,70	367,05	6,65	27,24	,2709
79	,93672	—	103,94	198,40	5,54	50,40	,5011	29	,96908	—	283,14	376,51	6,63	26,56	,2641
78	,93728	—	105,27	199,70	5,57	50,07	,4978	28	,96980	—	293,25	386,67	6,58	25,86	,2571
77	,93784	—	106,64	201,04	5,60	49,74	,4945	27	,97054	—	304,11	397,57	6,54	25,15	,2501
76	,93841	—	108,04	202,42	5,62	49,40	,4912	26	,97128	—	315,81	409,30	6,51	24,43	,2429
100 + 75	,93898	—	109,48	203,83	5,65	49,06	,4878	100 + 25	,97203	—	328,44	421,92	6,52	23,70	,2356
74	,93956	—	110,95	205,28	5,67	48,72	,4844	24	,97279	—	342,12	435,64	6,48	22,95	,2282
73	,94015	—	112,47	206,76	5,71	48,37	,4809	23	,97356	—	357,00	450,56	6,44	22,19	,2207
72	,94074	—	114,04	208,29	5,75	48,01	,4774	22	,97435	—	373,23	466,83	6,40	21,42	,2130
71	,94133	—	115,65	209,86	5,79	47,65	,4738	21	,97515	—	390,00	484,65	6,35	20,63	,2051
100 + 70	,94193	—	117,30	211,48	5,82	47,29	,4701	100 + 20	,97596	—	410,55	504,26	6,29	19,83	,1971
69	,94254	—	118,99	213,14	5,85	46,92	,4664	19	,97678	—	432,16	525,93	6,23	19,01	,1890
68	,94315	—	120,74	214,86	5,88	46,54	,4627	18	,97762	—	456,17	550,01	6,16	18,18	,1807
67	,94376	—	122,55	216,63	5,92	46,16	,4589	17	,97848	—	483,00	576,92	6,08	17,33	,1723
66	,94438	—	124,40	218,45	5,95	45,78	,4551	16	,97937	—	513,19	607,19	6,00	16,47	,1637
100 + 65	,94500	—	126,32	220,33	5,99	45,39	,4512	100 + 15	,98028	—	547,40	641,49	5,91	15,59	,1550
64	,94562	—	128,29	222,27	6,02	44,99	,4473	14	,98121	—	586,50	680,70	5,80	14,69	,1461
63	,94624	—	130,32	224,27	6,05	44,59	,4433	13	,98217	—	631,61	725,91	5,70	13,77	,1370
62	,94687	—	132,42	226,34	6,08	44,18	,4393	12	,98317	—	684,25	778,65	5,60	12,84	,1277
61	,94750	—	134,60	228,48	6,12	43,77	,4352	11	,98420	—	746,45	840,97	5,48	11,89	,1182
100 + 60	,94813	—	136,85	230,69	6,16	43,35	,4310	100 + 10	,98527	—	821,10	915,72	5,38	10,92	,1086
59	,94877	—	139,16	232,97	6,19	42,92	,4268	9	,98638	—	912,33	1007,11	5,22	9,93	,0987
58	,94942	—	141,56	235,34	6,22	42,49	,4225	8	,98754	—	1026,37	1121,28	5,09	8,92	,0887
57	,95007	—	144,05	237,80	6,25	42,05	,4181	7	,98876	—	1173,00	1268,04	4,96	7,89	,0784
56	,95073	—	146,63	240,34	6,29	41,61	,4137	6	,99002	—	1368,50	1463,68	4,82	6,83	,0679
100 + 55	,95139	—	149,29	242,97	6,32	41,16	,4092	100 + 5	,99134	—	1642,20	1737,53	4,67	5,75	,0572
54	,95205	—	152,02	245,69	6,33	40,70	,4046	4	,99272	—	2052,74	2148,24	4,50	4,65	,0463
53	,95270	—	154,88	248,53	6,35	40,23	,4000	3	,99417	—	2737,00	2832,64	4,36	3,53	,0351
52	,95336	—	157,87	251,48	6,39	39,76	,3953	2	,99569	—	4105,50	4201,29	4,21	2,38	,0237
51	,95403	—	160,98	254,56	6,42	39,28	,3905	1	,99728	—	8210,99	8306,93	4,06	1,20	,0120

TABLE I.

HEAT 71°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.	Spirit and Water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of Spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81975	100	—	100,00	—	100,00	,9936	100 + 50	,89206	100	41,03	137,84	3,19	72,55	,7208
1	,82206	—	0,82	100,72	0,10	99,29	,9866	51	,89297	—	41,86	138,62	3,24	72,14	,7169
2	,82432	—	1,64	101,44	0,20	98,58	,9796	52	,89387	—	42,68	139,40	3,28	71,74	,7129
3	,82652	—	2,46	102,16	0,30	97,89	,9727	53	,89476	—	43,50	140,17	3,33	71,34	,7089
4	,82866	—	3,28	102,88	0,40	97,20	,9659	54	,89563	—	44,31	140,95	3,36	70,95	,7050
100 + 5	,83075	—	4,10	103,61	0,49	96,52	,9590	100 + 55	,89649	—	45,13	141,73	3,40	70,56	,7011
6	,83278	—	4,93	104,34	0,59	95,84	,9523	56	,89733	—	45,95	142,51	3,44	70,17	,6973
7	,83477	—	5,75	105,08	0,67	95,17	,9457	57	,89816	—	46,77	143,29	3,48	69,79	,6935
8	,83671	—	6,57	105,81	0,76	94,51	,9391	58	,89898	—	47,59	144,07	3,52	69,40	,6897
9	,83860	—	7,39	106,55	0,84	93,85	,9326	59	,89979	—	48,41	144,85	3,56	69,03	,6859
100 + 10	,84044	—	8,21	107,29	0,92	93,20	,9261	100 + 60	,90058	—	49,24	145,63	3,61	68,66	,6822
11	,84223	—	9,03	108,04	0,99	92,56	,9197	61	,90136	—	50,06	146,42	3,64	68,30	,6786
12	,84398	—	9,85	108,78	1,07	91,93	,9134	62	,90213	—	50,88	147,20	3,68	67,93	,6750
13	,84570	—	10,67	109,53	1,14	91,30	,9072	63	,90289	—	51,70	147,98	3,72	67,57	,6714
14	,84738	—	11,48	110,28	1,20	90,68	,9010	64	,90364	—	52,52	148,77	3,75	67,21	,6679
100 + 15	,84903	—	12,31	111,03	1,28	90,06	,8949	100 + 65	,90438	—	53,34	149,55	3,79	66,86	,6644
16	,85066	—	13,14	111,78	1,36	89,46	,8889	66	,90512	—	54,16	150,33	3,83	66,52	,6609
17	,85226	—	13,95	112,53	1,42	88,86	,8830	67	,90586	—	54,98	151,12	3,86	66,17	,6575
18	,85383	—	14,77	113,29	1,48	88,27	,8771	68	,90659	—	55,80	151,90	3,90	65,83	,6541
19	,85537	—	15,59	114,04	1,55	87,68	,8713	69	,90731	—	56,62	152,68	3,94	65,49	,6507
100 + 20	,85688	—	16,41	114,80	1,61	87,11	,8655	100 + 70	,90801	—	57,45	153,47	3,98	65,15	,6474
21	,85836	—	17,23	115,56	1,67	86,54	,8598	71	,90870	—	58,27	154,26	4,01	64,82	,6441
22	,85982	—	18,05	116,31	1,74	85,97	,8542	72	,90938	—	59,09	155,05	4,04	64,49	,6408
23	,86125	—	18,87	117,07	1,80	85,42	,8488	73	,91005	—	59,91	155,83	4,08	64,17	,6376
24	,86265	—	19,70	117,83	1,87	84,87	,8433	74	,91071	—	60,73	156,62	4,11	63,85	,6344
100 + 25	,86403	—	20,52	118,59	1,93	84,32	,8379	100 + 75	,91135	—	61,55	157,41	4,14	63,53	,6312
26	,86539	—	21,34	119,35	1,99	83,78	,8325	76	,91200	—	62,37	158,19	4,18	63,21	,6281
27	,86672	—	22,16	120,12	2,04	83,25	,8272	77	,91263	—	63,19	158,98	4,21	62,90	,6250
28	,86802	—	22,98	120,88	2,10	82,72	,8220	78	,91325	—	64,01	159,77	4,24	62,59	,6219
29	,86931	—	23,80	121,65	2,15	82,20	,8168	79	,91388	—	64,83	160,56	4,27	62,28	,6188
100 + 30	,87057	—	24,62	122,41	2,21	81,69	,8117	100 + 80	,91449	—	65,65	161,35	4,30	61,98	,6158
31	,87181	—	25,44	123,18	2,26	81,18	,8067	81	,91510	—	66,47	162,14	4,33	61,67	,6128
32	,87303	—	26,26	123,94	2,32	80,68	,8017	82	,91571	—	67,29	162,92	4,37	61,38	,6099
33	,87423	—	27,09	124,71	2,38	80,18	,7968	83	,91631	—	68,11	163,71	4,40	61,08	,6070
34	,87541	—	27,91	125,49	2,42	79,69	,7919	84	,91690	—	68,93	164,50	4,43	60,79	,6040
100 + 35	,87658	—	28,73	126,25	2,48	79,20	,7870	100 + 85	,91749	—	69,75	165,30	4,45	60,50	,6011
36	,87771	—	29,55	127,02	2,53	78,72	,7823	86	,91806	—	70,57	166,09	4,48	60,21	,5983
37	,87882	—	30,37	127,79	2,58	78,25	,7776	87	,91862	—	71,39	166,88	4,51	59,92	,5954
38	,87992	—	31,19	128,56	2,63	77,78	,7719	88	,91917	—	72,22	167,67	4,55	59,64	,5927
39	,88100	—	32,01	129,33	2,68	77,32	,7683	89	,91971	—	73,04	168,46	4,58	59,36	,5899
100 + 40	,88206	—	32,83	130,10	2,73	76,86	,7637	100 + 90	,92025	—	73,86	169,25	4,61	59,08	,5871
41	,88314	—	33,65	130,87	2,78	76,40	,7592	91	,92079	—	74,68	170,04	4,64	58,81	,5844
42	,88419	—	34,47	131,64	2,83	75,96	,7547	92	,92132	—	75,50	170,83	4,67	58,54	,5817
43	,88523	—	35,29	132,42	2,87	75,52	,7503	93	,92185	—	76,32	171,63	4,69	58,27	,5790
44	,88625	—	36,11	133,19	2,92	75,08	,7460	94	,92237	—	77,14	172,42	4,72	58,00	,5764
100 + 45	,88726	—	36,93	133,96	2,97	74,65	,7417	100 + 95	,92289	—	77,96	173,21	4,75	57,73	,5737
46	,88825	—	37,75	134,74	3,01	74,22	,7375	96	,92339	—	78,77	173,99	4,78	57,47	,5711
47	,88922	—	38,57	135,51	3,06	73,79	,7332	97	,92389	—	79,59	174,78	4,81	57,21	,5686
48	,89018	—	39,39	136,29	3,10	73,37	,7291	98	,92439	—	80,41	175,57	4,84	56,95	,5660
49	,89113	—	40,21	137,06	3,15	72,96	,7249	99	,92488	—	81,24	176,37	4,87	56,70	,5634



TABLE II.

HEAT 71°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92536	100	82.07	177.17	4.90	56.44	.5608	100 + 50	.95433	100	164.13	257.70	6.43	38.81	.3856
99	.92586	—	82.90	177.97	4.93	56.18	.5583	49	.95501	—	167.49	261.01	6.48	38.31	.3807
98	.92636	—	83.75	178.79	4.96	55.92	.5557	48	.95567	—	170.98	264.47	6.51	37.81	.3757
97	.92686	—	84.62	179.62	5.00	55.66	.5531	47	.95635	—	174.61	268.09	6.52	37.30	.3706
96	.92736	—	85.50	180.47	5.03	55.40	.5506	46	.95702	—	178.41	271.86	6.55	36.78	.3655
100 + 95	.92785	—	86.39	181.34	5.05	55.14	.5479	100 + 45	.95770	—	182.38	275.81	6.57	36.25	.3603
94	.92835	—	87.30	182.23	5.07	54.87	.5453	44	.95838	—	186.52	279.93	6.59	35.72	.3550
93	.92884	—	88.24	183.15	5.09	54.60	.5426	43	.95906	—	190.86	284.25	6.61	35.17	.3496
92	.92934	—	89.20	184.08	5.12	54.32	.5398	42	.95975	—	195.41	288.79	6.62	34.62	.3441
91	.92984	—	90.18	185.03	5.15	54.04	.5370	41	.96043	—	200.17	293.54	6.63	34.06	.3385
100 + 90	.93033	—	91.18	186.01	5.17	53.76	.5342	100 + 40	.96111	—	205.17	298.52	6.65	33.49	.3329
89	.93085	—	92.20	187.01	5.19	53.47	.5314	39	.96181	—	210.44	303.77	6.67	32.92	.3271
88	.93138	—	93.25	188.03	5.22	53.18	.5285	38	.96249	—	215.97	309.31	6.66	32.33	.3213
87	.93190	—	94.32	189.08	5.24	52.89	.5256	37	.96318	—	221.81	315.15	6.66	31.73	.3153
86	.93243	—	95.42	190.14	5.28	52.59	.5226	36	.96387	—	227.97	321.31	6.66	31.12	.3093
100 + 85	.93296	—	96.55	191.23	5.32	52.29	.5196	100 + 35	.96456	—	234.49	327.80	6.69	30.51	.3031
84	.93351	—	97.70	192.35	5.35	51.99	.5166	34	.96526	—	241.38	334.70	6.68	29.87	.2969
83	.93406	—	98.87	193.50	5.37	51.68	.5135	33	.96596	—	248.70	342.04	6.66	29.23	.2905
82	.93462	—	100.08	194.67	5.41	51.37	.5104	32	.96668	—	256.47	349.83	6.64	28.58	.2840
81	.93518	—	101.32	195.87	5.45	51.05	.5073	31	.96739	—	264.74	358.11	6.63	27.92	.2774
100 + 80	.93576	—	102.59	197.10	5.49	50.73	.5041	100 + 30	.96811	—	273.57	366.92	6.65	27.25	.2708
79	.93632	—	103.89	198.36	5.53	50.41	.5009	29	.96883	—	283.00	376.38	6.62	26.57	.2640
78	.93688	—	105.22	199.67	5.55	50.08	.4976	28	.96956	—	293.11	386.54	6.57	25.87	.2571
77	.93744	—	106.59	201.01	5.58	49.75	.4943	27	.97030	—	303.96	397.43	6.53	25.16	.2501
76	.93801	—	107.99	202.39	5.60	49.41	.4910	26	.97105	—	315.66	409.15	6.51	24.44	.2429
100 + 75	.93857	—	109.43	203.80	5.63	49.07	.4876	100 + 25	.97180	—	328.28	421.77	6.52	23.71	.2356
74	.93916	—	110.90	205.24	5.66	48.72	.4842	24	.97257	—	341.96	435.48	6.48	22.96	.2282
73	.93975	—	112.41	206.72	5.69	48.37	.4807	23	.97334	—	356.83	450.39	6.44	22.20	.2207
72	.94034	—	113.98	208.25	5.73	48.01	.4772	22	.97414	—	373.05	466.65	6.40	21.43	.2130
71	.94093	—	115.59	209.82	5.77	47.66	.4736	21	.97495	—	390.81	484.46	6.35	20.64	.2051
100 + 70	.94153	—	117.24	211.44	5.80	47.29	.4699	100 + 20	.97575	—	410.36	504.06	6.30	19.84	.1971
69	.94214	—	118.93	213.10	5.83	46.92	.4662	19	.97659	—	431.95	525.72	6.23	19.02	.1890
68	.94275	—	120.68	214.82	5.86	46.55	.4625	18	.97744	—	455.95	549.79	6.16	18.19	.1807
67	.94336	—	122.49	216.60	5.89	46.17	.4588	17	.97831	—	482.77	576.68	6.09	17.34	.1723
66	.94398	—	124.34	218.41	5.93	45.79	.4550	16	.97920	—	512.95	606.93	6.02	16.48	.1637
100 + 65	.94461	—	126.26	220.29	5.97	45.39	.4511	100 + 15	.98011	—	547.14	641.22	5.92	15.60	.1550
64	.94523	—	128.23	222.23	6.00	44.99	.4472	14	.98105	—	586.22	680.41	5.81	14.70	.1461
63	.94585	—	130.26	224.23	6.03	44.59	.4432	13	.98201	—	631.31	725.59	5.72	13.78	.1370
62	.94649	—	132.36	226.30	6.06	44.19	.4391	12	.98302	—	683.93	778.31	5.62	12.85	.1277
61	.94712	—	134.53	228.43	6.10	43.78	.4350	11	.98405	—	746.10	840.60	5.50	11.89	.1182
100 + 60	.94775	—	136.78	230.64	6.14	43.36	.4308	100 + 10	.98513	—	820.71	915.31	5.40	10.92	.1086
59	.94840	—	139.09	232.93	6.16	42.93	.4266	9	.98624	—	911.90	1006.65	5.25	9.93	.0987
58	.94905	—	141.49	235.30	6.19	42.50	.4224	8	.98740	—	1025.89	1120.77	5.12	8.92	.0887
57	.94971	—	143.98	237.75	6.23	42.06	.4180	7	.98862	—	1173.46	1267.46	5.00	7.89	.0784
56	.95037	—	146.56	240.29	6.27	41.61	.4136	6	.99089	—	1367.86	1463.01	4.85	6.84	.0679
100 + 55	.95102	—	149.21	242.91	6.30	41.17	.4091	100 + 5	.99121	—	1641.43	1736.73	4.70	5.76	.0572
54	.95169	—	151.95	245.63	6.32	40.71	.4045	4	.99259	—	2051.79	2147.26	4.53	4.66	.0463
53	.95234	—	154.80	248.47	6.33	40.24	.3999	3	.99404	—	2735.73	2834.34	4.39	3.53	.0351
52	.95301	—	157.80	251.42	6.38	39.77	.3952	2	.99557	—	4103.59	4199.35	4.24	2.38	.0237
51	.95368	—	160.90	254.50	6.40	39.29	.3904	1	.99716	—	8207.17	8303.07	4.10	1.21	.0120

TABLE I.

HEAT 72°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81927	100	—	100,00	—	100,00	,9930	100 + 50	,89159	100	41,01	137,83	3,18	72,55	,7205
1	,82157	—	0,82	100,72	0,10	99,29	,9860	51	,89250	—	41,84	138,61	3,23	72,15	,7165
2	,82383	—	1,64	101,44	0,20	98,58	,9790	52	,89341	—	42,66	139,39	3,27	71,74	,7125
3	,82603	—	2,46	102,16	0,30	97,89	,9721	53	,89430	—	43,48	140,16	3,32	71,34	,7085
4	,82817	—	3,28	102,88	0,40	97,20	,9653	54	,89517	—	44,29	140,94	3,35	70,95	,7046
100 + 5	,83026	—	4,10	103,61	0,49	96,52	,9585	100 + 55	,89602	—	45,11	141,72	3,39	70,56	,7007
6	,83229	—	4,92	104,34	0,58	95,84	,9518	56	,89687	—	45,93	142,50	3,43	70,17	,6969
7	,83428	—	5,74	105,08	0,66	95,17	,9452	57	,89770	—	46,75	143,28	3,47	69,79	,6931
8	,83623	—	6,56	105,81	0,75	94,51	,9386	58	,89852	—	47,57	144,06	3,51	69,41	,6893
9	,83812	—	7,39	106,55	0,84	93,85	,9321	59	,89933	—	48,39	144,84	3,55	69,04	,6855
100 + 10	,83995	—	8,20	107,29	0,91	93,20	,9256	100 + 60	,90011	—	49,22	145,62	3,60	68,67	,6819
11	,84175	—	9,02	108,04	0,98	92,56	,9192	61	,90090	—	50,04	146,41	3,63	68,30	,6782
12	,84350	—	9,84	108,78	1,06	91,93	,9129	62	,90166	—	50,86	147,19	3,67	67,93	,6746
13	,84522	—	10,66	109,53	1,13	91,30	,9067	63	,90242	—	51,68	147,97	3,71	67,57	,6710
14	,84690	—	11,48	110,28	1,20	90,68	,9005	64	,90317	—	52,50	148,76	3,74	67,22	,6675
100 + 15	,84854	—	12,31	111,03	1,28	90,06	,8944	100 + 65	,90391	—	53,32	149,54	3,78	66,87	,6640
16	,85018	—	13,13	111,78	1,35	89,46	,8885	66	,90466	—	54,14	150,32	3,82	66,52	,6606
17	,85177	—	13,95	112,53	1,42	88,86	,8825	67	,90540	—	54,96	151,11	3,85	66,17	,6572
18	,85334	—	14,76	113,29	1,47	88,27	,8766	68	,90613	—	55,78	151,89	3,89	65,83	,6538
19	,85489	—	15,58	114,04	1,54	87,68	,8708	69	,90685	—	56,60	152,67	3,93	65,50	,6504
100 + 20	,85640	—	16,40	114,80	1,60	87,11	,8650	100 + 70	,90755	—	57,42	153,46	3,96	65,16	,6471
21	,85788	—	17,22	115,55	1,67	86,54	,8594	71	,90824	—	58,24	154,25	3,99	64,83	,6438
22	,85933	—	18,04	116,30	1,74	85,98	,8537	72	,90892	—	59,06	155,03	4,03	64,50	,6405
23	,86077	—	18,86	117,06	1,80	85,42	,8483	73	,90959	—	59,88	155,82	4,06	64,17	,6373
24	,86217	—	19,69	117,82	1,87	84,87	,8429	74	,91025	—	60,70	156,61	4,09	63,85	,6341
100 + 25	,86356	—	20,51	118,59	1,92	84,33	,8374	100 + 75	,91090	—	61,52	157,39	4,13	63,53	,6309
26	,86491	—	21,33	119,35	1,98	83,79	,8321	76	,91155	—	62,34	158,18	4,16	63,22	,6278
27	,86624	—	22,15	120,11	2,04	83,26	,8268	77	,91218	—	63,16	158,96	4,20	62,90	,6247
28	,86754	—	22,97	120,88	2,09	82,73	,8216	78	,91280	—	63,98	159,76	4,22	62,59	,6216
29	,86883	—	23,79	121,64	2,15	82,21	,8164	79	,91343	—	64,80	160,55	4,25	62,29	,6185
100 + 30	,87008	—	24,61	122,40	2,21	81,70	,8113	100 + 80	,91405	—	65,62	161,34	4,28	61,98	,6155
31	,87133	—	25,43	123,17	2,26	81,19	,8062	81	,91466	—	66,44	162,13	4,31	61,68	,6125
32	,87255	—	26,25	123,94	2,31	80,69	,8013	82	,91527	—	67,26	162,91	4,35	61,38	,6095
33	,87375	—	27,07	124,71	2,36	80,19	,7963	83	,91587	—	68,08	163,69	4,39	61,09	,6067
34	,87494	—	27,89	125,48	2,41	79,70	,7914	84	,91646	—	68,90	164,49	4,41	60,79	,6038
100 + 35	,87610	—	28,71	126,24	2,47	79,21	,7866	100 + 85	,91704	—	69,72	165,28	4,44	60,50	,6009
36	,87724	—	29,53	127,01	2,52	78,73	,7819	86	,91761	—	70,54	166,07	4,47	60,22	,5980
37	,87835	—	30,35	127,78	2,57	78,26	,7772	87	,91818	—	71,36	166,86	4,50	59,93	,5952
38	,87944	—	31,17	128,55	2,62	77,79	,7715	88	,91873	—	72,19	167,65	4,54	59,65	,5924
39	,88053	—	31,99	129,33	2,66	77,33	,7679	89	,91927	—	73,01	168,44	4,57	59,37	,5896
100 + 40	,88159	—	32,81	130,10	2,71	76,87	,7633	100 + 90	,91981	—	73,83	169,23	4,60	59,09	,5868
41	,88267	—	33,63	130,87	2,76	76,41	,7588	91	,92035	—	74,65	170,02	4,63	58,82	,5841
42	,88372	—	34,46	131,64	2,82	75,96	,7543	92	,92088	—	75,47	170,81	4,66	58,54	,5814
43	,88476	—	35,27	132,41	2,86	75,52	,7499	93	,92141	—	76,29	171,61	4,68	58,27	,5787
44	,88578	—	36,09	133,18	2,91	75,08	,7456	94	,92193	—	77,11	172,40	4,71	58,01	,5760
100 + 45	,88679	—	36,91	133,95	2,96	74,65	,7413	100 + 95	,92244	—	77,93	173,19	4,74	57,74	,5734
46	,88778	—	37,73	134,73	3,00	74,22	,7371	96	,92295	—	78,73	173,97	4,76	57,48	,5709
47	,88875	—	38,55	135,50	3,05	73,80	,7329	97	,92345	—	79,55	174,76	4,79	57,22	,5683
48	,88971	—	39,37	136,28	3,09	73,38	,7287	98	,92395	—	80,37	175,55	4,82	56,96	,5657
49	,89066	—	40,19	137,05	3,14	72,96	,7246	99	,92445	—	81,20	176,35	4,85	56,71	,5631

TABLE II.

HEAT 72°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92493	100	82,03	177,15	4,88	56,45	.5605	100 + 50	.95397	100	164,05	257,64	6,41	38,81	.3854
99	.92543	—	82,86	177,95	4,91	56,19	.5580	49	.95466	—	167,41	250,95	6,46	38,32	.3805
98	.92593	—	83,71	178,77	4,94	55,93	.5555	48	.95531	—	170,90	264,41	6,49	37,81	.3755
97	.92643	—	84,58	179,60	4,98	55,67	.5529	47	.95601	—	174,53	268,03	6,50	37,30	.3705
96	.92693	—	85,46	180,45	5,01	55,41	.5503	46	.95669	—	178,32	271,79	6,53	36,79	.3654
100 + 95	.92742	—	86,35	181,32	5,03	55,15	.5476	100 + 45	.95737	—	182,29	275,74	6,55	36,26	.3601
94	.92792	—	87,26	182,20	5,06	54,88	.5450	44	.95805	—	186,44	279,86	6,58	35,73	.3549
93	.92841	—	88,20	183,13	5,07	54,61	.5423	43	.95874	—	190,77	284,18	6,59	35,18	.3495
92	.92891	—	89,16	184,06	5,10	54,33	.5395	42	.95943	—	195,32	288,71	6,61	34,63	.3440
91	.92941	—	90,14	185,01	5,13	54,05	.5367	41	.96011	—	200,08	293,46	6,62	34,07	.3384
100 + 90	.92991	—	91,14	185,99	5,15	53,77	.5339	100 + 40	.96080	—	205,07	298,44	6,63	33,50	.3327
89	.93043	—	92,16	186,98	5,18	53,48	.5311	39	.96150	—	210,34	303,69	6,65	32,93	.3270
88	.93096	—	93,21	188,01	5,20	53,19	.5282	38	.96219	—	215,87	309,22	6,65	32,34	.3212
87	.93148	—	94,28	189,05	5,23	52,90	.5253	37	.96288	—	221,71	315,05	6,66	31,74	.3152
86	.93201	—	95,38	190,11	5,27	52,60	.5224	36	.96358	—	227,86	321,20	6,66	31,13	.3092
100 + 85	.93255	—	96,51	191,20	5,31	52,30	.5194	100 + 35	.96428	—	234,38	327,70	6,68	30,51	.3030
84	.93311	—	97,66	192,32	5,34	52,00	.5164	34	.96498	—	241,27	334,59	6,68	29,88	.2968
83	.93366	—	98,83	193,47	5,36	51,69	.5133	33	.96569	—	248,58	341,93	6,65	29,24	.2904
82	.93422	—	100,04	194,64	5,40	51,37	.5102	32	.96641	—	256,35	349,72	6,63	28,59	.2839
81	.93478	—	101,28	195,84	5,44	51,06	.5071	31	.96713	—	264,62	357,99	6,63	27,93	.2774
100 + 80	.93536	—	102,54	197,07	5,47	50,74	.5039	100 + 30	.96786	—	273,44	366,80	6,64	27,26	.2707
79	.93591	—	103,84	198,33	5,51	50,41	.5007	29	.96858	—	282,87	376,25	6,62	26,58	.2639
78	.93647	—	105,17	199,64	5,53	50,08	.4974	28	.96931	—	292,97	386,40	6,57	25,88	.2570
77	.93703	—	106,54	200,98	5,56	49,75	.4941	27	.97006	—	303,82	397,29	6,53	25,17	.2500
76	.93760	—	107,94	202,35	5,59	49,42	.4908	26	.97081	—	315,51	409,00	6,51	24,45	.2428
100 + 75	.93816	—	109,38	203,76	5,62	49,08	.4874	100 + 25	.97157	—	328,13	421,62	6,51	23,72	.2355
74	.93875	—	110,85	205,21	5,64	48,73	.4840	24	.97234	—	341,80	435,32	6,48	22,97	.2281
73	.93934	—	112,36	206,69	5,67	48,38	.4805	23	.97312	—	356,66	450,22	6,44	22,21	.2206
72	.93993	—	113,92	208,22	5,70	48,02	.4770	22	.97392	—	372,87	466,47	6,40	21,44	.2129
71	.94052	—	115,53	209,79	5,74	47,67	.4734	21	.97474	—	390,63	484,27	6,36	20,65	.2050
100 + 70	.94112	—	117,19	211,41	5,78	47,30	.4697	100 + 20	.97555	—	410,17	503,86	6,31	19,85	.1971
69	.94173	—	118,87	213,07	5,80	46,93	.4660	19	.97639	—	431,75	525,51	6,24	19,03	.1890
68	.94234	—	120,62	214,79	5,83	46,55	.4623	18	.97725	—	455,74	549,57	6,17	18,20	.1807
67	.94295	—	122,43	216,56	5,87	46,18	.4586	17	.97813	—	482,54	576,44	6,10	17,35	.1723
66	.94358	—	124,28	218,38	5,90	45,79	.4548	16	.97902	—	512,71	606,68	6,03	16,48	.1637
100 + 65	.94421	—	126,20	220,25	5,95	45,40	.4509	100 + 15	.97994	—	546,88	640,95	5,93	15,60	.1549
64	.94483	—	128,17	222,19	5,98	45,00	.4470	14	.98088	—	585,95	680,12	5,83	14,70	.1460
63	.94546	—	130,20	224,19	6,01	44,60	.4430	13	.98187	—	631,02	725,28	5,74	13,79	.1369
62	.94610	—	132,30	226,26	6,04	44,20	.4389	12	.98286	—	683,61	777,97	5,64	12,85	.1276
61	.94674	—	134,47	228,39	6,08	43,79	.4348	11	.98390	—	745,76	840,23	5,53	11,90	.1182
100 + 60	.94737	—	136,71	230,60	6,11	43,37	.4306	100 + 10	.98499	—	820,33	914,90	5,43	10,93	.1085
59	.94802	—	139,03	232,88	6,15	42,94	.4264	9	.98610	—	911,47	1006,20	5,27	9,94	.0987
58	.94868	—	141,42	235,25	6,17	42,50	.4221	8	.98726	—	1025,41	1120,26	5,15	8,93	.0887
57	.94934	—	143,91	237,70	6,21	42,07	.4178	7	.98848	—	1172,92	1266,88	5,04	7,89	.0784
56	.95000	—	146,49	240,24	6,25	41,62	.4134	6	.99075	—	1367,22	1462,34	4,88	6,84	.0679
100 + 55	.95065	—	149,14	242,86	6,28	41,17	.4089	100 + 5	.99108	—	1640,67	1735,93	4,74	5,76	.0572
54	.95132	—	151,86	245,58	6,30	40,71	.4043	4	.99245	—	2050,83	2146,27	4,56	4,66	.0463
53	.95198	—	154,73	248,42	6,31	40,25	.3997	3	.99391	—	2734,46	2830,04	4,42	3,53	.0351
52	.95265	—	157,72	251,37	6,35	39,78	.3950	2	.99544	—	4101,68	4197,41	4,27	2,38	.0237
51	.95332	—	160,83	254,45	6,38	39,30	.3902	1	.99704	—	8203,36	8299,21	4,15	1,21	.0120

TABLE I.

HEAT 73°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81878	100	—	100,00	—	100,00	,9924	100 + 50	,89112	100	40,99	137,82	3,17	72,56	,7201
1	,82108	—	0,82	100,72	0,10	99,29	,9854	51	,89204	—	41,82	138,60	3,22	72,15	,7161
2	,82334	—	1,64	101,44	0,20	98,58	,9784	52	,89294	—	42,64	139,38	3,26	71,75	,7121
3	,82553	—	2,46	102,16	0,30	97,89	,9715	53	,89383	—	43,46	140,15	3,31	71,35	,7082
4	,82768	—	3,28	102,88	0,40	97,20	,9647	54	,89471	—	44,27	140,93	3,34	70,96	,7042
100 + 5	,82977	—	4,10	103,61	0,49	96,52	,9579	100 + 55	,89556	—	45,09	141,71	3,38	70,57	,7003
6	,83180	—	4,92	104,34	0,58	95,84	,9512	56	,89641	—	45,91	142,49	3,42	70,18	,6965
7	,83379	—	5,74	105,08	0,66	95,17	,9446	57	,89724	—	46,73	143,27	3,46	69,80	,6927
8	,83574	—	6,56	105,81	0,75	94,51	,9380	58	,89806	—	47,55	144,05	3,50	69,42	,6889
9	,83764	—	7,38	106,55	0,83	93,85	,9315	59	,89887	—	48,37	144,83	3,54	69,04	,6852
100 + 10	,83947	—	8,20	107,29	0,91	93,21	,9250	100 + 60	,89964	—	49,19	145,61	3,58	68,67	,6815
11	,84127	—	9,02	108,03	0,99	92,57	,9186	61	,90043	—	50,01	146,40	3,61	68,31	,6779
12	,84302	—	9,84	108,78	1,06	91,93	,9123	62	,90120	—	50,83	147,18	3,65	67,94	,6743
13	,84474	—	10,66	109,53	1,13	91,30	,9061	63	,90196	—	51,65	147,96	3,69	67,58	,6707
14	,84642	—	11,48	110,28	1,20	90,68	,9000	64	,90271	—	52,47	148,75	3,72	67,23	,6672
100 + 15	,84806	—	12,30	111,02	1,28	90,07	,8939	100 + 65	,90345	—	53,29	149,53	3,76	66,88	,6637
16	,84970	—	13,12	111,78	1,34	89,46	,8879	66	,90420	—	54,11	150,31	3,80	66,53	,6602
17	,85129	—	13,94	112,53	1,41	88,87	,8820	67	,90494	—	54,93	151,09	3,84	66,18	,6568
18	,85286	—	14,76	113,28	1,48	88,27	,8761	68	,90567	—	55,75	151,87	3,88	65,84	,6534
19	,85440	—	15,58	114,04	1,54	87,69	,8703	69	,90639	—	56,57	152,65	3,92	65,51	,6501
100 + 20	,85592	—	16,39	114,80	1,59	87,11	,8646	100 + 70	,90709	—	57,39	153,44	3,95	65,17	,6468
21	,85740	—	17,21	115,55	1,66	86,54	,8589	71	,90778	—	58,22	154,23	3,99	64,84	,6435
22	,85885	—	18,04	116,30	1,74	85,98	,8533	72	,90846	—	59,03	155,01	4,02	64,51	,6402
23	,86029	—	18,86	117,06	1,80	85,42	,8478	73	,90913	—	59,85	155,80	4,05	64,18	,6370
24	,86169	—	19,68	117,82	1,86	84,87	,8423	74	,90979	—	60,67	156,59	4,08	63,86	,6338
100 + 25	,86308	—	20,50	118,58	1,92	84,33	,8369	100 + 75	,91044	—	61,49	157,38	4,11	63,54	,6306
26	,86443	—	21,32	119,34	1,98	83,79	,8316	76	,91109	—	62,31	158,16	4,15	63,23	,6275
27	,86576	—	22,14	120,11	2,03	83,26	,8263	77	,91173	—	63,13	158,95	4,18	62,91	,6244
28	,86706	—	22,96	120,87	2,09	82,73	,8211	78	,91235	—	63,95	159,74	4,21	62,60	,6213
29	,86835	—	23,78	121,63	2,15	82,21	,8159	79	,91298	—	64,77	160,53	4,24	62,29	,6182
100 + 30	,86960	—	24,60	122,40	2,20	81,70	,8108	100 + 80	,91360	—	65,59	161,32	4,27	61,99	,6152
31	,87085	—	25,41	123,17	2,24	81,19	,8058	81	,91421	—	66,41	162,11	4,30	61,69	,6122
32	,87207	—	26,23	123,93	2,30	80,69	,8009	82	,91482	—	67,23	162,89	4,34	61,39	,6092
33	,87327	—	27,06	124,70	2,36	80,19	,7959	83	,91542	—	68,05	163,68	4,37	61,10	,6064
34	,87446	—	27,88	125,47	2,41	79,70	,7910	84	,91601	—	68,87	164,47	4,40	60,80	,6035
100 + 35	,87562	—	28,70	126,23	2,47	79,21	,7862	100 + 85	,91659	—	69,69	165,26	4,43	60,51	,6006
36	,87676	—	29,52	127,00	2,52	78,73	,7815	86	,91716	—	70,51	166,05	4,46	60,22	,5977
37	,87788	—	30,34	127,78	2,56	78,26	,7768	87	,91773	—	71,33	166,84	4,49	59,94	,5949
38	,87897	—	31,16	128,55	2,61	77,79	,7711	88	,91829	—	72,15	167,63	4,52	59,66	,5921
39	,88006	—	31,98	129,32	2,66	77,33	,7675	89	,91883	—	72,97	168,42	4,55	59,38	,5893
100 + 40	,88112	—	32,80	130,09	2,71	76,87	,7629	100 + 90	,91937	—	73,79	169,21	4,58	59,10	,5865
41	,88220	—	33,61	130,86	2,75	76,41	,7584	91	,91991	—	74,61	170,00	4,61	58,82	,5838
42	,88325	—	34,44	131,63	2,81	75,97	,7539	92	,92044	—	75,43	170,79	4,64	58,55	,5811
43	,88429	—	35,26	132,41	2,85	75,53	,7495	93	,92097	—	76,25	171,59	4,66	58,28	,5784
44	,88531	—	36,08	133,17	2,91	75,09	,7452	94	,92149	—	77,07	172,38	4,69	58,01	,5758
100 + 45	,88632	—	36,90	133,94	2,96	74,66	,7409	100 + 95	,92199	—	77,89	173,17	4,72	57,75	,5731
46	,88731	—	37,71	134,72	2,99	74,23	,7367	96	,92251	—	78,70	173,95	4,75	57,49	,5706
47	,88828	—	38,53	135,49	3,04	73,80	,7325	97	,92301	—	79,52	174,74	4,78	57,23	,5680
48	,88924	—	39,35	136,27	3,08	73,38	,7283	98	,92351	—	80,33	175,53	4,80	56,97	,5654
49	,89019	—	40,17	137,04	3,13	72,97	,7242	99	,92402	—	81,16	176,33	4,83	56,71	,5629

TABLE II.

HEAT 73°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92450	100	81.99	177.13	4.86	56.45	.5603	100 + 50	.95362	100	163.98	257.58	6.40	38.82	.3853
99	.92500	—	82.82	177.93	4.89	56.20	.5578	49	.95431	—	167.33	260.89	6.44	38.33	.3803
98	.92550	—	83.67	178.75	4.92	55.94	.5552	48	.95499	—	170.82	264.35	6.47	37.82	.3753
97	.92600	—	84.54	179.58	4.96	55.68	.5526	47	.95567	—	174.45	267.97	6.48	37.31	.3703
96	.92650	—	85.42	180.43	4.99	55.41	.5500	46	.95636	—	178.24	271.73	6.51	36.80	.3652
100 + 95	.92699	—	86.31	181.29	5.02	55.15	.5474	100 + 45	.95704	—	182.21	275.67	6.54	36.27	.3600
94	.92749	—	87.22	182.18	5.04	54.88	.5447	44	.95772	—	186.35	279.79	6.56	35.74	.3548
93	.92798	—	88.16	183.10	5.06	54.61	.5420	43	.95842	—	190.68	284.11	6.57	35.19	.3494
92	.92848	—	89.12	184.03	5.09	54.33	.5393	42	.95911	—	195.23	288.64	6.59	34.64	.3439
91	.92899	—	90.10	184.98	5.12	54.05	.5365	41	.95980	—	199.99	293.48	6.61	34.08	.3383
100 + 90	.92949	—	91.10	185.96	5.14	53.77	.5337	100 + 40	.96049	—	204.98	298.36	6.62	33.51	.3326
89	.93001	—	92.12	186.95	5.17	53.48	.5309	39	.96119	—	210.24	303.60	6.64	32.94	.3269
88	.93054	—	93.17	187.98	5.19	53.19	.5280	38	.96189	—	215.77	309.13	6.64	32.35	.3211
87	.93106	—	94.24	189.02	5.22	52.90	.5251	37	.96259	—	221.60	314.96	6.64	31.75	.3151
86	.93160	—	95.33	190.08	5.25	52.61	.5222	36	.96329	—	227.75	321.10	6.65	31.14	.3091
100 + 85	.93214	—	96.46	191.17	5.29	52.31	.5191	100 + 35	.96400	—	234.27	327.60	6.67	30.52	.3029
84	.93270	—	97.61	192.29	5.32	52.01	.5161	34	.96471	—	241.16	334.49	6.67	29.89	.2967
83	.93325	—	98.78	193.44	5.34	51.70	.5131	33	.96542	—	248.46	341.82	6.64	29.25	.2904
82	.93381	—	99.99	194.61	5.38	51.38	.5100	32	.96614	—	256.23	349.60	6.63	28.60	.2839
81	.93437	—	101.23	195.81	5.42	51.07	.5069	31	.96687	—	264.50	357.87	6.63	27.94	.2773
100 + 80	.93495	—	102.49	197.04	5.45	50.75	.5037	100 + 30	.96760	—	273.31	366.68	6.63	27.27	.2706
79	.93550	—	103.79	198.30	5.49	50.42	.5005	29	.96833	—	282.74	376.13	6.61	26.59	.2639
78	.93606	—	105.12	199.61	5.51	50.09	.4972	28	.96907	—	292.83	386.26	6.57	25.89	.2569
77	.93662	—	106.49	200.94	5.55	49.76	.4939	27	.96982	—	303.68	397.14	6.54	25.18	.2499
76	.93719	—	107.89	202.32	5.57	49.43	.4906	26	.97057	—	315.36	408.85	6.51	24.46	.2428
100 + 75	.93775	—	109.33	203.73	5.60	49.09	.4872	100 + 25	.97134	—	327.98	421.47	6.51	23.73	.2355
74	.93834	—	110.80	205.18	5.62	48.74	.4838	24	.97211	—	341.64	435.16	6.48	22.98	.2281
73	.93893	—	112.31	206.65	5.66	48.39	.4803	23	.97290	—	356.49	450.05	6.44	22.22	.2205
72	.93952	—	113.87	208.18	5.69	48.03	.4768	22	.97371	—	372.70	466.30	6.40	21.44	.2128
71	.94011	—	115.48	209.76	5.72	47.67	.4732	21	.97453	—	390.45	484.09	6.36	20.65	.2050
100 + 70	.94071	—	117.13	211.37	5.76	47.31	.4695	100 + 20	.97535	—	409.98	503.67	6.31	19.85	.1970
69	.94132	—	118.82	213.03	5.79	46.94	.4658	19	.97620	—	431.55	525.30	6.25	19.04	.1889
68	.94193	—	120.57	214.76	5.81	46.56	.4621	18	.97706	—	455.53	549.35	6.18	18.20	.1806
67	.94255	—	122.37	216.52	5.85	46.18	.4584	17	.97795	—	482.32	576.20	6.12	17.35	.1722
66	.94318	—	124.22	218.34	5.88	45.80	.4546	16	.97885	—	512.47	606.43	6.04	16.49	.1636
100 + 65	.94381	—	126.14	220.21	5.93	45.41	.4507	100 + 15	.97977	—	546.63	640.68	5.95	15.61	.1549
64	.94443	—	128.11	222.15	5.96	45.01	.4468	14	.98072	—	585.68	679.83	5.85	14.71	.1460
63	.94507	—	130.14	224.15	5.99	44.61	.4428	13	.98172	—	630.73	724.97	5.76	13.79	.1369
62	.94571	—	132.24	226.22	6.02	44.20	.4387	12	.98271	—	683.29	777.63	5.66	12.86	.1276
61	.94635	—	134.41	228.35	6.06	43.79	.4346	11	.98375	—	745.41	839.86	5.55	11.90	.1182
100 + 60	.94699	—	136.65	230.55	6.10	43.37	.4304	100 + 10	.98484	—	819.95	914.49	5.46	10.93	.1085
59	.94764	—	138.97	232.84	6.13	42.94	.4262	9	.98596	—	911.05	1005.75	5.30	9.94	.0987
58	.94831	—	141.36	235.20	6.16	42.51	.4220	8	.98712	—	1024.93	1119.76	5.17	8.93	.0886
57	.94897	—	143.84	237.65	6.19	42.07	.4176	7	.98834	—	1172.39	1266.31	5.08	7.90	.0784
56	.94963	—	146.42	240.19	6.23	41.63	.4132	6	.99061	—	1366.58	1461.68	4.90	6.84	.0679
100 + 55	.95029	—	149.07	242.81	6.26	41.18	.4087	100 + 5	.99094	—	1639.91	1735.13	4.78	5.76	.0572
54	.95096	—	151.81	245.53	6.28	40.72	.4042	4	.99231	—	2049.88	2145.29	4.59	4.66	.0463
53	.95162	—	154.66	248.37	6.29	40.26	.3996	3	.99378	—	2733.18	2828.73	4.45	3.53	.0351
52	.95229	—	157.64	251.31	6.34	39.79	.3949	2	.99531	—	4099.78	4195.47	4.31	2.38	.0237
51	.95296	—	160.76	254.40	6.36	39.31	.3901	1	.99691	—	8199.55	8295.35	4.20	1.21	.0120



TABLE I.

HEAT 74°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81829	100	—	100,00	—	100,00	,9919	100 + 50	,89065	100	40,97	137,81	3,16	72,56	,7197
1	,82059	—	0,82	100,72	0,10	99,29	,9848	51	,89157	—	41,80	138,59	3,21	72,16	,7157
2	,82284	—	1,64	101,44	0,20	98,58	,9778	52	,89248	—	42,62	139,37	3,25	71,75	,7117
3	,82504	—	2,46	102,16	0,30	97,89	,9709	53	,89337	—	43,44	140,14	3,30	71,35	,7078
4	,82719	—	3,28	102,88	0,40	97,20	,9641	54	,89425	—	44,25	140,92	3,33	70,96	,7039
100 + 5	,82927	—	4,10	103,61	0,49	96,52	,9573	100 + 55	,89510	—	45,07	141,70	3,37	70,57	,7000
6	,83131	—	4,92	104,34	0,58	95,84	,9506	56	,89595	—	45,89	142,48	3,41	70,18	,6962
7	,83330	—	5,74	105,07	0,66	95,17	,9440	57	,89678	—	46,71	143,26	3,45	69,80	,6924
8	,83525	—	6,56	105,81	0,75	94,51	,9374	58	,89760	—	47,53	144,04	3,49	69,42	,6886
9	,83715	—	7,38	106,54	0,84	93,86	,9309	59	,89840	—	48,35	144,82	3,53	69,05	,6849
100 + 10	,83899	—	8,20	107,28	0,92	93,21	,9245	100 + 60	,89918	—	49,17	145,60	3,57	68,68	,6812
11	,84079	—	9,01	108,03	0,98	92,57	,9181	61	,89997	—	49,99	146,39	3,60	68,31	,6776
12	,84254	—	9,83	108,78	1,05	91,93	,9118	62	,90073	—	50,81	147,17	3,64	67,94	,6739
13	,84426	—	10,65	109,52	1,13	91,30	,9056	63	,90149	—	51,63	147,95	3,68	67,58	,6703
14	,84594	—	11,47	110,27	1,20	90,68	,8995	64	,90224	—	52,45	148,74	3,71	67,23	,6668
100 + 15	,84758	—	12,30	111,02	1,28	90,07	,8934	100 + 65	,90299	—	53,27	149,52	3,75	66,88	,6633
16	,84921	—	13,12	111,77	1,35	89,47	,8874	66	,90374	—	54,09	150,30	3,79	66,53	,6599
17	,85080	—	13,93	112,52	1,41	88,87	,8815	67	,90448	—	54,91	151,08	3,83	66,18	,6565
18	,85237	—	14,75	113,28	1,47	88,28	,8756	68	,90521	—	55,72	151,86	3,86	65,84	,6531
19	,85391	—	15,57	114,03	1,54	87,69	,8698	69	,90593	—	56,54	152,64	3,90	65,51	,6498
100 + 20	,85544	—	16,39	114,79	1,60	87,11	,8641	100 + 70	,90663	—	57,36	153,42	3,94	65,17	,6464
21	,85691	—	17,20	115,54	1,66	86,54	,8584	71	,90732	—	58,19	154,22	3,97	64,84	,6431
22	,85837	—	18,03	116,30	1,73	85,98	,8528	72	,90800	—	59,00	155,00	4,00	64,51	,6399
23	,85981	—	18,85	117,05	1,80	85,43	,8473	73	,90867	—	59,82	155,79	4,03	64,19	,6367
24	,86121	—	19,67	117,81	1,86	84,88	,8419	74	,90933	—	60,64	156,58	4,06	63,86	,6335
100 + 25	,86260	—	20,49	118,58	1,91	84,33	,8365	100 + 75	,90999	—	61,46	157,36	4,10	63,54	,6303
26	,86395	—	21,31	119,34	1,97	83,79	,8311	76	,91063	—	62,28	158,15	4,13	63,23	,6272
27	,86528	—	22,13	120,10	2,03	83,26	,8258	77	,91127	—	63,10	158,93	4,17	62,91	,6241
28	,86658	—	22,95	120,87	2,08	82,74	,8206	78	,91190	—	63,92	159,72	4,20	62,60	,6210
29	,86787	—	23,77	121,63	2,14	82,22	,8155	79	,91253	—	64,74	160,51	4,23	62,30	,6179
100 + 30	,86912	—	24,59	122,39	2,20	81,70	,8104	100 + 80	,91316	—	65,56	161,30	4,26	61,99	,6149
31	,87037	—	25,40	123,16	2,24	81,19	,8053	81	,91376	—	66,38	162,09	4,29	61,69	,6119
32	,87159	—	26,22	123,93	2,29	80,69	,8004	82	,91437	—	67,20	162,87	4,33	61,40	,6089
33	,87279	—	27,04	124,70	2,34	80,20	,7954	83	,91497	—	68,02	163,66	4,36	61,10	,6061
34	,87398	—	27,86	125,47	2,39	79,71	,7906	84	,91556	—	68,84	164,46	4,38	60,81	,6032
100 + 35	,87514	—	28,68	126,23	2,45	79,22	,7858	100 + 85	,91614	—	69,66	165,24	4,42	60,52	,6003
36	,87628	—	29,50	127,00	2,50	78,74	,7811	86	,91671	—	70,48	166,03	4,45	60,23	,5974
37	,87740	—	30,32	127,77	2,55	78,27	,7764	87	,91728	—	71,30	166,82	4,48	59,94	,5946
38	,87850	—	31,15	128,54	2,61	77,80	,7707	88	,91784	—	72,12	167,61	4,51	59,66	,5918
39	,87959	—	31,96	129,31	2,65	77,33	,7671	89	,91839	—	72,94	168,40	4,54	59,38	,5890
100 + 40	,88065	—	32,78	130,09	2,69	76,87	,7625	100 + 90	,91893	—	73,76	169,19	4,57	59,10	,5862
41	,88173	—	33,60	130,86	2,74	76,42	,7580	91	,91947	—	74,58	169,98	4,60	58,83	,5835
42	,88278	—	34,43	131,63	2,80	75,97	,7535	92	,92000	—	75,39	170,77	4,62	58,56	,5808
43	,88382	—	35,24	132,40	2,84	75,53	,7491	93	,92053	—	76,21	171,57	4,64	58,29	,5781
44	,88484	—	36,06	133,17	2,89	75,09	,7448	94	,92105	—	77,03	172,36	4,67	58,02	,5755
100 + 45	,88585	—	36,88	133,94	2,94	74,66	,7405	100 + 95	,92155	—	77,85	173,15	4,70	57,75	,5728
46	,88684	—	37,69	134,71	2,98	74,23	,7363	96	,92207	—	78,66	173,93	4,73	57,49	,5703
47	,88781	—	38,51	135,49	3,02	73,81	,7321	97	,92257	—	79,48	174,72	4,76	57,23	,5677
48	,88877	—	39,33	136,26	3,07	73,39	,7279	98	,92307	—	80,30	175,51	4,79	56,97	,5651
49	,88972	—	40,15	137,03	3,12	72,97	,7238	99	,92358	—	81,12	176,31	4,81	56,72	,5626

TABLE II.

HEAT 74°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and Spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92407	100	81.95	177.11	4.84	56.46	.5600	100 + 50	.95327	100	163.91	257.52	6.39	38.83	.3852
99	.92457	—	82.78	177.91	4.87	56.20	.5575	49	.95396	—	167.25	260.83	6.42	38.34	.3802
98	.92507	—	83.63	178.73	4.90	55.94	.5549	48	.95465	—	170.74	264.29	6.45	37.83	.3753
97	.92557	—	84.50	179.56	4.94	55.68	.5524	47	.95533	—	174.37	267.91	6.46	37.32	.3703
96	.92607	—	85.38	180.41	4.97	55.42	.5598	46	.95602	—	178.16	271.67	6.49	36.81	.3651
100 + 95	.92656	—	86.27	181.27	5.00	55.16	.5471	100 + 45	.95671	—	182.12	275.60	6.52	36.28	.3599
94	.92706	—	87.18	182.16	5.02	54.89	.5445	44	.95740	—	186.26	279.72	6.54	35.75	.3546
93	.92756	—	88.12	183.08	5.04	54.62	.5418	43	.95810	—	190.59	284.04	6.55	35.20	.3492
92	.92806	—	89.08	184.00	5.08	54.34	.5390	42	.95879	—	195.14	288.56	6.58	34.65	.3438
91	.92856	—	90.06	184.96	5.10	54.06	.5362	41	.95949	—	199.90	293.30	6.60	34.09	.3382
100 + 90	.92907	—	91.06	185.94	5.12	53.78	.5334	100 + 40	.96018	—	204.89	298.28	6.61	33.52	.3325
89	.92959	—	92.08	186.92	5.16	53.49	.5306	39	.96089	—	210.14	303.51	6.63	32.95	.3268
88	.93012	—	93.13	187.95	5.18	53.20	.5277	38	.96159	—	215.67	309.04	6.63	32.36	.3210
87	.93065	—	94.20	188.99	5.21	52.91	.5248	37	.96230	—	221.50	314.86	6.64	31.76	.3150
86	.93119	—	95.29	190.05	5.24	52.62	.5219	36	.96301	—	227.65	321.00	6.65	31.15	.3090
100 + 85	.93173	—	96.41	191.14	5.27	52.32	.5189	100 + 35	.96372	—	234.16	327.50	6.66	30.53	.3029
84	.93229	—	97.57	192.26	5.31	52.02	.5159	34	.96444	—	241.05	334.39	6.66	29.90	.2966
83	.93285	—	98.74	193.41	5.33	51.71	.5129	33	.96515	—	248.35	341.71	6.64	29.26	.2903
82	.93341	—	99.94	194.58	5.36	51.39	.5098	32	.96588	—	256.11	349.49	6.62	28.61	.2838
81	.93397	—	101.18	195.78	5.40	51.08	.5067	31	.96661	—	264.38	357.75	6.63	27.95	.2773
100 + 80	.93455	—	102.44	197.01	5.43	50.76	.5035	100 + 30	.96734	—	273.18	366.56	6.62	27.28	.2706
79	.93509	—	103.74	198.27	5.47	50.43	.5003	29	.96808	—	282.61	376.00	6.61	26.60	.2638
78	.93566	—	105.07	199.58	5.49	50.10	.4970	28	.96883	—	292.70	386.13	6.57	25.90	.2569
77	.93622	—	106.44	200.91	5.53	49.77	.4937	27	.96958	—	303.54	397.00	6.54	25.19	.2499
76	.93679	—	107.84	202.28	5.56	49.44	.4903	26	.97033	—	315.21	408.70	6.51	24.47	.2427
100 + 75	.93735	—	109.28	203.70	5.58	49.09	.4869	100 + 25	.97110	—	327.83	421.32	6.51	23.74	.2354
74	.93794	—	110.75	205.14	5.61	48.75	.4835	24	.97188	—	341.48	435.01	6.47	22.99	.2280
73	.93852	—	112.26	206.62	5.64	48.40	.4801	23	.97268	—	356.33	449.89	6.44	22.23	.2205
72	.93911	—	113.82	208.15	5.67	48.04	.4766	22	.97350	—	372.53	466.13	6.40	21.45	.2128
71	.93970	—	115.43	209.72	5.71	47.68	.4730	21	.97432	—	390.27	483.91	6.36	20.66	.2049
100 + 70	.94031	—	117.08	211.34	5.74	47.32	.4693	100 + 20	.97515	—	409.79	503.48	6.31	19.86	.1970
69	.94091	—	118.77	213.00	5.77	46.95	.4656	19	.97601	—	431.35	525.10	6.25	19.04	.1889
68	.94153	—	120.51	214.72	5.79	46.57	.4619	18	.97688	—	455.32	549.13	6.19	18.21	.1806
67	.94215	—	122.31	216.49	5.82	46.19	.4582	17	.97777	—	482.10	575.97	6.13	17.36	.1722
66	.94278	—	124.17	218.30	5.87	45.81	.4544	16	.97868	—	512.23	606.18	6.05	16.50	.1636
100 + 65	.94341	—	126.08	220.17	5.91	45.42	.4505	100 + 15	.97960	—	546.38	640.41	5.97	15.62	.1549
64	.94404	—	128.05	222.11	5.94	45.02	.4466	14	.98056	—	585.41	679.54	5.87	14.72	.1460
63	.94468	—	130.08	224.11	5.97	44.62	.4426	13	.98157	—	630.44	724.66	5.78	13.80	.1369
62	.94532	—	132.18	226.18	6.00	44.21	.4385	12	.98256	—	682.97	777.29	5.68	12.86	.1276
61	.94597	—	134.35	228.31	6.04	43.80	.4344	11	.98360	—	745.07	839.49	5.58	11.91	.1181
100 + 60	.94661	—	136.59	230.51	6.08	43.38	.4303	100 + 10	.98469	—	819.57	914.08	5.49	10.94	.1085
59	.94727	—	138.90	232.79	6.11	42.95	.4261	9	.98582	—	910.63	1005.30	5.33	9.95	.0987
58	.94794	—	141.30	235.15	6.15	42.52	.4218	8	.98698	—	1024.46	1119.26	5.20	8.93	.0886
57	.94860	—	143.77	237.60	6.17	42.08	.4175	7	.98820	—	1171.86	1265.74	5.12	7.90	.0784
56	.94927	—	146.35	240.14	6.21	41.64	.4131	6	.99047	—	1365.95	1461.02	4.93	6.85	.0679
100 + 55	.94993	—	149.00	242.76	6.24	41.19	.4086	100 + 5	.99080	—	1639.15	1734.34	4.81	5.77	.0572
54	.95060	—	151.74	245.48	6.26	40.73	.4041	4	.99218	—	2048.93	2144.30	4.63	4.66	.0463
53	.95126	—	154.59	248.32	6.27	40.27	.3995	3	.99365	—	2731.91	2827.43	4.48	3.53	.0351
52	.95193	—	157.57	251.26	6.31	39.80	.3948	2	.99518	—	4097.87	4193.52	4.35	2.38	.0237
51	.95260	—	160.69	254.34	6.35	39.32	.3900	1	.99678	—	8195.74	8291.50	4.24	1.21	.0120

TABLE I.

HEAT 75°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81780	100	—	100,00	—	100,00	,9913	100 + 50	,89018	100	40,96	137,80	3,16	72,57	,7193
1	,82010	—	0,82	100,72	0,10	99,29	,9842	51	,89110	—	41,78	138,58	3,20	72,16	,7153
2	,82235	—	1,64	101,44	0,20	98,58	,9772	52	,89201	—	42,60	139,36	3,24	71,76	,7113
3	,82455	—	2,46	102,16	0,30	97,89	,9703	53	,89290	—	43,42	140,13	3,29	71,36	,7074
4	,82669	—	3,28	102,88	0,40	97,21	,9635	54	,89378	—	44,23	140,91	3,32	70,97	,7035
100 + 5	,82878	—	4,10	103,61	0,49	96,52	,9567	100 + 55	,89464	—	45,05	141,69	3,36	70,58	,6996
6	,83082	—	4,91	104,34	0,57	95,84	,9500	56	,89548	—	45,87	142,47	3,40	70,19	,6958
7	,83281	—	5,73	105,07	0,66	95,17	,9434	57	,89631	—	46,69	143,25	3,44	69,81	,6920
8	,83476	—	6,55	105,81	0,74	94,51	,9368	58	,89713	—	47,51	144,03	3,48	69,43	,6882
9	,83666	—	7,37	106,54	0,83	93,86	,9303	59	,89793	—	48,33	144,81	3,52	69,05	,6845
100 + 10	,83851	—	8,19	107,28	0,91	93,21	,9239	100 + 60	,89872	—	49,15	145,59	3,56	68,68	,6808
11	,84031	—	9,01	108,03	0,98	92,57	,9176	61	,89950	—	49,97	146,38	3,59	68,32	,6772
12	,84206	—	9,83	108,77	1,06	91,94	,9113	62	,90026	—	50,79	147,16	3,63	67,95	,6736
13	,84378	—	10,65	109,52	1,13	91,31	,9051	63	,90102	—	51,61	147,94	3,67	67,59	,6700
14	,84546	—	11,47	110,27	1,20	90,69	,8990	64	,90177	—	52,43	148,73	3,70	67,24	,6665
100 + 15	,84710	—	12,29	111,02	1,27	90,07	,8930	100 + 65	,90252	—	53,25	149,51	3,74	66,89	,6630
16	,84872	—	13,11	111,77	1,34	89,47	,8870	66	,90327	—	54,07	150,29	3,78	66,54	,6595
17	,85031	—	13,93	112,52	1,41	88,87	,8810	67	,90401	—	54,89	151,07	3,82	66,19	,6561
18	,85188	—	14,75	113,28	1,47	88,28	,8751	68	,90474	—	55,70	151,85	3,85	65,85	,6527
19	,85342	—	15,56	114,03	1,53	87,69	,8693	69	,90546	—	56,52	152,63	3,89	65,52	,6494
100 + 20	,85496	—	16,38	114,79	1,59	87,12	,8636	100 + 70	,90617	—	57,34	153,41	3,93	65,18	,6461
21	,85642	—	17,20	115,54	1,66	86,55	,8579	71	,90686	—	58,16	154,20	3,96	64,85	,6428
22	,85788	—	18,02	116,30	1,72	85,99	,8523	72	,90754	—	58,98	154,99	3,99	64,52	,6395
23	,85932	—	18,84	117,05	1,79	85,43	,8468	73	,90821	—	59,80	155,78	4,02	64,20	,6363
24	,86073	—	19,66	117,81	1,85	84,88	,8414	74	,90887	—	60,62	156,56	4,06	63,87	,6331
100 + 25	,86212	—	20,48	118,57	1,91	84,34	,8360	100 + 75	,90952	—	61,44	157,35	4,09	63,55	,6300
26	,86347	—	21,30	119,33	1,97	83,80	,8306	76	,91017	—	62,26	158,14	4,12	63,24	,6268
27	,86480	—	22,12	120,10	2,02	83,27	,8253	77	,91081	—	63,08	158,92	4,16	62,92	,6237
28	,86610	—	22,94	120,86	2,08	82,74	,8201	78	,91145	—	63,90	159,71	4,19	62,61	,6206
29	,86738	—	23,76	121,62	2,14	82,22	,8150	79	,91208	—	64,71	160,50	4,21	62,31	,6176
100 + 30	,86864	—	24,58	122,39	2,19	81,71	,8099	100 + 80	,91270	—	65,53	161,28	4,25	62,00	,6146
31	,86988	—	25,39	123,16	2,23	81,20	,8049	81	,91331	—	66,35	162,07	4,28	61,70	,6116
32	,87110	—	26,21	123,92	2,29	80,70	,7999	82	,91392	—	67,17	162,86	4,31	61,40	,6087
33	,87231	—	27,03	124,69	2,34	80,20	,7950	83	,91452	—	67,99	163,65	4,34	61,11	,6058
34	,87350	—	27,85	125,46	2,39	79,71	,7901	84	,91511	—	68,81	164,44	4,37	60,81	,6029
100 + 35	,87466	—	28,67	126,22	2,45	79,22	,7853	100 + 85	,91569	—	69,63	165,22	4,41	60,52	,6000
36	,87580	—	29,49	126,99	2,50	78,74	,7806	86	,91626	—	70,45	166,01	4,44	60,24	,5971
37	,87692	—	30,31	127,76	2,55	78,27	,7759	87	,91683	—	71,27	166,80	4,47	59,95	,5943
38	,87802	—	31,13	128,53	2,60	77,80	,7712	88	,91739	—	72,09	167,59	4,50	59,67	,5915
39	,87911	—	31,95	129,31	2,64	77,34	,7666	89	,91794	—	72,91	168,38	4,53	59,39	,5887
100 + 40	,88018	—	32,77	130,08	2,69	76,88	,7621	100 + 90	,91849	—	73,73	169,17	4,56	59,11	,5860
41	,88125	—	33,59	130,85	2,74	76,42	,7576	91	,91902	—	74,55	169,96	4,59	58,84	,5832
42	,88230	—	34,41	131,62	2,79	75,98	,7531	92	,91955	—	75,36	170,75	4,61	58,57	,5805
43	,88334	—	35,22	132,39	2,83	75,54	,7487	93	,92008	—	76,18	171,55	4,63	58,30	,5779
44	,88437	—	36,04	133,16	2,88	75,10	,7444	94	,92060	—	77,00	172,34	4,66	58,03	,5752
100 + 45	,88538	—	36,86	133,93	2,93	74,67	,7401	100 + 95	,92111	—	77,82	173,13	4,69	57,76	,5726
46	,88637	—	37,68	134,70	2,98	74,24	,7359	96	,92162	—	78,63	173,91	4,72	57,50	,5700
47	,88734	—	38,50	135,48	3,02	73,81	,7317	97	,92213	—	79,45	174,70	4,75	57,24	,5674
48	,88830	—	39,32	136,25	3,07	73,39	,7275	98	,92263	—	80,27	175,49	4,78	56,98	,5648
49	,88925	—	40,14	137,03	3,11	72,98	,7234	99	,92314	—	81,09	176,29	4,80	56,73	,5623

for Spirituous Liquors.

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TABLE II.

HEAT 75°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92364	100	81.92	177.09	4.83	56.47	.5598	100 + 50	.95292	100	163.84	257.46	6.38	38.84	.3850
99	.92414	—	82.75	177.89	4.86	56.21	.5572	49	.95361	—	167.18	260.78	6.40	38.35	.3801
98	.92464	—	83.60	178.71	4.89	55.95	.5547	48	.95430	—	170.56	264.24	6.42	37.84	.3751
97	.92513	—	84.46	179.54	4.92	55.69	.5521	47	.95499	—	174.29	267.85	6.44	37.33	.3701
96	.92563	—	85.34	180.39	4.95	55.43	.5495	46	.95568	—	178.08	271.61	6.47	36.82	.3650
100 + 95	.92613	—	86.23	181.25	4.98	55.17	.5469	100 + 45	.95638	—	182.04	275.53	6.51	36.29	.3598
94	.92663	—	87.14	182.14	5.00	54.90	.5442	44	.95707	—	186.18	279.65	6.53	35.76	.3545
93	.92713	—	88.08	183.05	5.03	54.63	.5415	43	.95777	—	190.51	283.97	6.54	35.21	.3491
92	.92763	—	89.04	183.98	5.06	54.35	.5388	42	.95847	—	195.05	288.49	6.56	34.66	.3436
91	.92814	—	90.02	184.94	5.08	54.07	.5360	41	.95917	—	199.81	293.23	6.58	34.10	.3380
100 + 90	.92865	—	91.02	185.91	5.11	53.79	.5332	100 + 40	.95987	—	204.80	298.20	6.60	33.53	.3324
89	.92917	—	92.04	186.90	5.14	53.50	.5304	39	.96058	—	210.05	303.43	6.62	32.96	.3267
88	.92970	—	93.09	187.92	5.17	53.21	.5275	38	.96129	—	215.57	308.95	6.64	32.37	.3209
87	.93023	—	94.16	188.96	5.20	52.92	.5246	37	.96200	—	221.40	314.76	6.64	31.77	.3149
86	.93077	—	95.25	190.02	5.23	52.62	.5217	36	.96272	—	227.55	320.90	6.65	31.16	.3089
100 + 85	.93132	—	96.37	191.11	5.26	52.32	.5187	100 + 35	.96344	—	234.05	327.41	6.64	30.54	.3028
84	.93188	—	97.52	192.23	5.29	52.02	.5157	34	.96416	—	240.94	334.29	6.65	29.91	.2965
83	.93244	—	98.69	193.38	5.31	51.71	.5126	33	.96488	—	248.24	341.61	6.63	29.27	.2902
82	.93300	—	99.90	194.55	5.35	51.40	.5095	32	.96561	—	256.00	349.38	6.62	28.62	.2837
81	.93356	—	101.14	195.75	5.39	51.08	.5064	31	.96634	—	264.26	357.64	6.62	27.96	.2772
100 + 80	.93413	—	102.40	196.98	5.42	50.77	.5032	100 + 30	.96708	—	273.00	366.44	6.62	27.29	.2705
79	.93469	—	103.69	198.24	5.45	50.44	.5000	29	.96783	—	282.48	375.88	6.60	26.60	.2637
78	.93525	—	105.02	199.54	5.48	50.11	.4967	28	.96858	—	292.57	386.00	6.57	25.91	.2568
77	.93581	—	106.39	200.88	5.51	49.78	.4934	27	.96933	—	303.40	396.86	6.54	25.20	.2498
76	.93638	—	107.79	202.25	5.54	49.44	.4901	26	.97009	—	315.07	408.55	6.52	24.48	.2426
100 + 75	.93695	—	109.23	203.66	5.57	49.10	.4867	100 + 25	.97086	—	327.68	421.17	6.51	23.74	.2354
74	.93753	—	110.70	205.10	5.60	48.75	.4833	24	.97165	—	341.33	434.86	6.47	22.99	.2280
73	.93811	—	112.21	206.59	5.62	48.40	.4798	23	.97246	—	356.17	449.73	6.44	22.23	.2204
72	.93870	—	113.77	208.12	5.65	48.05	.4763	22	.97328	—	372.36	466.96	6.40	21.46	.2127
71	.93929	—	115.38	209.69	5.69	47.69	.4727	21	.97411	—	389.09	483.73	6.36	20.67	.2049
100 + 70	.93989	—	117.03	211.31	5.72	47.32	.4691	100 + 20	.97495	—	409.60	503.29	6.31	19.87	.1970
69	.94050	—	118.72	212.97	5.75	46.95	.4654	19	.97581	—	431.15	524.90	6.25	19.05	.1889
68	.94112	—	120.46	214.68	5.78	46.58	.4617	18	.97669	—	455.11	548.91	6.20	18.21	.1806
67	.94174	—	122.26	216.45	5.81	46.20	.4580	17	.97759	—	481.88	575.74	6.14	17.36	.1722
66	.94237	—	124.12	218.27	5.85	45.82	.4542	16	.97850	—	511.99	605.93	6.06	16.50	.1636
100 + 65	.94301	—	126.03	220.14	5.89	45.43	.4503	100 + 15	.97943	—	546.13	640.15	5.98	15.62	.1549
64	.94364	—	127.99	222.07	5.92	45.03	.4464	14	.98039	—	585.14	679.25	5.89	14.72	.1460
63	.94428	—	130.02	224.07	5.95	44.63	.4424	13	.98138	—	630.15	724.35	5.80	13.80	.1369
62	.94493	—	132.12	226.14	5.98	44.22	.4383	12	.98240	—	682.66	776.96	5.70	12.87	.1276
61	.94558	—	134.29	228.27	6.02	43.81	.4342	11	.98345	—	744.72	839.12	5.60	11.92	.1181
100 + 60	.94623	—	136.53	230.47	6.06	43.39	.4301	100 + 10	.98454	—	819.19	913.68	5.51	10.94	.1085
59	.94689	—	138.84	232.74	6.10	42.96	.4259	9	.98567	—	910.21	1004.85	5.36	9.95	.0987
58	.94756	—	141.23	235.10	6.13	42.53	.4216	8	.98684	—	1023.99	1118.76	5.23	8.94	.0886
57	.94823	—	143.71	237.55	6.16	42.09	.4173	7	.98806	—	1170.33	1265.17	5.16	7.90	.0784
56	.94890	—	146.28	240.09	6.19	41.65	.4129	6	.98933	—	1365.32	1460.36	4.96	6.85	.0679
100 + 55	.94957	—	148.93	242.71	6.22	41.20	.4084	100 + 5	.99066	—	1638.39	1733.55	4.84	5.77	.0572
54	.95023	—	151.67	245.43	6.24	40.74	.4039	4	.99205	—	2047.98	2143.32	4.66	4.66	.0462
53	.95090	—	154.52	248.26	6.26	40.28	.3993	3	.99351	—	2730.64	2826.13	4.51	3.53	.0351
52	.95157	—	157.50	251.21	6.29	39.81	.3946	2	.99504	—	4095.96	4191.58	4.38	2.38	.0237
51	.95224	—	160.61	254.28	6.33	39.33	.3898	1	.99664	—	8191.92	8287.65	4.27	1.21	.0120

TABLE I.

HEAT 76°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81730	100	—	100,00	—	100,00	,9907	100 + 50	,88970	100	40,94	137,79	3,15	72,57	,7190
1	,81961	—	0,82	100,72	0,10	99,29	,9836	51	,89063	—	41,76	138,57	3,19	72,17	,7150
2	,82185	—	1,64	101,44	0,20	98,58	,9767	52	,89154	—	42,58	139,34	3,24	71,77	,7110
3	,82406	—	2,46	102,16	0,30	97,89	,9698	53	,89243	—	43,39	140,12	3,27	71,37	,7071
4	,82620	—	3,28	102,88	0,40	97,21	,9630	54	,89331	—	44,21	140,90	3,31	70,98	,7032
100 + 5	,82829	—	4,10	103,61	0,49	96,52	,9562	100 + 55	,89417	—	45,03	141,67	3,36	70,59	,6993
6	,83033	—	4,91	104,34	0,57	95,84	,9495	56	,89501	—	45,85	142,45	3,40	70,20	,6955
7	,83232	—	5,73	105,07	0,66	95,17	,9429	57	,89584	—	46,66	143,23	3,43	69,82	,6917
8	,83427	—	6,55	105,81	0,74	94,51	,9363	58	,89666	—	47,48	144,01	3,47	69,44	,6879
9	,83617	—	7,37	106,54	0,83	93,86	,9298	59	,89747	—	48,30	144,79	3,51	69,06	,6842
100 + 10	,83801	—	8,19	107,28	0,91	93,21	,9234	100 + 60	,89826	—	49,12	145,57	3,55	68,69	,6805
11	,83982	—	9,01	108,03	0,98	92,57	,9171	61	,89904	—	49,94	146,36	3,58	68,33	,6769
12	,84157	—	9,83	108,77	1,06	91,94	,9108	62	,89980	—	50,76	147,14	3,62	67,96	,6733
13	,84329	—	10,64	109,52	1,12	91,31	,9046	63	,90056	—	51,58	147,92	3,66	67,60	,6697
14	,84498	—	11,46	110,27	1,19	90,69	,8985	64	,90131	—	52,40	148,71	3,69	67,24	,6662
100 + 15	,84662	—	12,28	111,02	1,26	90,07	,8925	100 + 65	,90205	—	53,22	149,49	3,73	66,89	,6627
16	,84824	—	13,11	111,77	1,34	89,47	,8865	66	,90281	—	54,04	150,27	3,77	66,54	,6592
17	,84983	—	13,92	112,52	1,40	88,87	,8805	67	,90355	—	54,86	151,05	3,81	66,20	,6558
18	,85140	—	14,74	113,27	1,47	88,28	,8746	68	,90428	—	55,67	151,83	3,84	65,86	,6524
19	,85293	—	15,56	114,03	1,53	87,70	,8688	69	,90500	—	56,49	152,61	3,88	65,52	,6491
100 + 20	,85447	—	16,37	114,79	1,58	87,12	,8631	100 + 70	,90570	—	57,31	153,39	3,92	65,19	,6458
21	,85593	—	17,19	115,53	1,66	86,55	,8575	71	,90640	—	58,13	154,19	3,94	64,86	,6425
22	,85739	—	18,01	116,29	1,72	85,99	,8519	72	,90708	—	58,95	154,97	3,98	64,53	,6392
23	,85883	—	18,83	117,04	1,79	85,43	,8464	73	,90775	—	59,77	155,76	4,01	64,20	,6360
24	,86024	—	19,65	117,81	1,84	84,88	,8409	74	,90841	—	60,59	156,54	4,05	63,88	,6328
100 + 25	,86163	—	20,47	118,57	1,90	84,34	,8355	100 + 75	,90907	—	61,41	157,33	4,08	63,56	,6297
26	,86298	—	21,29	119,33	1,96	83,80	,8302	76	,90972	—	62,23	158,12	4,11	63,25	,6265
27	,86431	—	22,11	120,09	2,02	83,27	,8249	77	,91036	—	63,05	158,90	4,15	62,93	,6234
28	,86562	—	22,93	120,86	2,07	82,74	,8197	78	,91100	—	63,87	159,69	4,18	62,62	,6203
29	,86690	—	23,74	121,61	2,13	82,22	,8146	79	,91163	—	64,68	160,48	4,20	62,31	,6173
100 + 30	,86816	—	24,57	122,38	2,19	81,71	,8095	100 + 80	,91226	—	65,50	161,26	4,24	62,01	,6143
31	,86940	—	25,38	123,15	2,23	81,20	,8045	81	,91286	—	66,32	162,05	4,27	61,71	,6113
32	,87062	—	26,20	123,92	2,28	80,70	,7995	82	,91347	—	67,14	162,84	4,30	61,41	,6084
33	,87184	—	27,02	124,68	2,34	80,21	,7945	83	,91407	—	67,96	163,63	4,33	61,12	,6055
34	,87303	—	27,84	125,45	2,39	79,72	,7897	84	,91466	—	68,77	164,42	4,35	60,82	,6026
100 + 35	,87419	—	28,66	126,21	2,45	79,23	,7849	100 + 85	,91524	—	69,59	165,21	4,38	60,53	,5997
36	,87533	—	29,48	126,98	2,50	78,75	,7802	86	,91581	—	70,41	165,99	4,42	60,24	,5968
37	,87644	—	30,30	127,75	2,55	78,27	,7755	87	,91638	—	71,24	166,78	4,46	59,96	,5940
38	,87754	—	31,12	128,52	2,60	77,80	,7708	88	,91694	—	72,05	167,57	4,48	59,68	,5912
39	,87863	—	31,93	129,30	2,63	77,34	,7662	89	,91749	—	72,87	168,36	4,51	59,40	,5884
100 + 40	,87970	—	32,75	130,07	2,68	76,89	,7617	100 + 90	,91804	—	73,69	169,15	4,54	59,12	,5857
41	,88077	—	33,57	130,84	2,73	76,43	,7572	91	,91857	—	74,51	169,94	4,57	58,84	,5830
42	,88182	—	34,39	131,61	2,78	75,98	,7527	92	,91911	—	75,32	170,73	4,59	58,57	,5803
43	,88287	—	35,20	132,38	2,82	75,54	,7483	93	,91964	—	76,14	171,52	4,62	58,30	,5776
44	,88390	—	36,02	133,15	2,87	75,10	,7440	94	,92016	—	76,97	172,32	4,65	58,03	,5749
100 + 45	,88490	—	36,84	133,92	2,92	74,67	,7397	100 + 95	,92067	—	77,78	173,11	4,67	57,77	,5723
46	,88590	—	37,66	134,69	2,97	74,24	,7355	96	,92118	—	78,59	173,88	4,71	57,51	,5698
47	,88687	—	38,48	135,47	3,01	73,82	,7313	97	,92169	—	79,41	174,67	4,74	57,25	,5672
48	,88783	—	39,30	136,24	3,06	73,40	,7272	98	,92219	—	80,23	175,46	4,77	56,99	,5646
49	,88878	—	40,12	137,02	3,10	72,98	,7231	99	,92270	—	81,05	176,26	4,79	56,73	,5621



TABLE II.

HEAT 76°

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	,92320	100	81,88	177,06	4,82	56,48	,5595	100 + 50	,95255	100	163,76	257,40	6,36	38,85	,3849
99	,92370	—	82,71	177,86	4,85	56,22	,5569	49	,95325	—	167,10	260,71	6,39	38,36	,3800
98	,92420	—	83,56	178,68	4,88	55,96	,5544	48	,95395	—	170,58	264,17	6,41	37,85	,3750
97	,92469	—	84,42	179,51	4,91	55,70	,5518	47	,95464	—	174,21	267,78	6,43	37,34	,3700
96	,92519	—	85,30	180,36	4,94	55,44	,5492	46	,95534	—	177,99	271,54	6,45	36,82	,3649
100 + 95	,92569	—	86,19	181,22	4,97	55,18	,5466	100 + 45	,95603	—	181,95	275,46	6,49	36,30	,3596
94	,92619	—	87,10	182,11	4,99	54,91	,5440	44	,95674	—	186,09	279,57	6,52	35,77	,3544
93	,92669	—	88,03	183,02	5,01	54,64	,5413	43	,95744	—	190,42	283,89	6,53	35,22	,3490
92	,92720	—	88,99	183,95	5,04	54,36	,5386	42	,95814	—	194,95	288,41	6,54	34,67	,3435
91	,92771	—	89,97	184,91	5,06	54,08	,5358	41	,95885	—	199,71	293,15	6,56	34,11	,3379
100 + 90	,92822	—	90,97	185,89	5,08	53,80	,5330	100 + 40	,95955	—	204,70	298,11	6,59	33,54	,3323
89	,92874	—	91,99	186,87	5,12	53,51	,5302	39	,96026	—	209,95	303,34	6,61	32,96	,3266
88	,92927	—	93,04	187,90	5,14	53,22	,5273	38	,96098	—	215,47	308,86	6,61	32,37	,3208
87	,92980	—	94,11	188,94	5,17	52,93	,5244	37	,96169	—	221,29	314,67	6,62	31,77	,3148
86	,93034	—	95,20	190,00	5,20	52,63	,5214	36	,96242	—	227,44	320,81	6,63	31,17	,3088
100 + 85	,93089	—	96,32	191,08	5,24	52,33	,5184	100 + 35	,96314	—	233,94	327,31	6,63	30,55	,3027
84	,93145	—	97,47	192,20	5,27	52,03	,5154	34	,96386	—	240,82	334,19	6,63	29,92	,2965
83	,93201	—	98,64	193,35	5,29	51,72	,5124	33	,96459	—	248,12	341,50	6,62	29,28	,2901
82	,93258	—	99,85	194,52	5,33	51,41	,5093	32	,96532	—	255,88	349,27	6,61	28,63	,2836
81	,93314	—	101,09	195,72	5,37	51,09	,5062	31	,96606	—	264,13	357,53	6,60	27,97	,2771
100 + 80	,93370	—	102,35	196,94	5,41	50,77	,5030	100 + 30	,96680	—	272,93	366,32	6,61	27,30	,2704
79	,93427	—	103,64	198,20	5,44	50,44	,4998	29	,96756	—	282,34	375,75	6,59	26,61	,2637
78	,93483	—	104,97	199,51	5,46	50,12	,4965	28	,96831	—	292,43	385,86	6,57	25,91	,2568
77	,93540	—	106,34	200,85	5,49	49,79	,4932	27	,96907	—	303,25	396,72	6,53	25,21	,2498
76	,93597	—	107,74	202,21	5,53	49,45	,4899	26	,96984	—	314,92	408,40	6,52	24,49	,2426
100 + 75	,93653	—	109,17	203,62	5,55	49,10	,4865	100 + 25	,97062	—	327,52	421,02	6,50	23,75	,2353
74	,93712	—	110,64	205,06	5,58	48,76	,4831	24	,97141	—	341,17	434,70	6,47	23,00	,2279
73	,93770	—	112,15	206,56	5,59	48,41	,4796	23	,97223	—	356,00	449,56	6,44	22,24	,2204
72	,93825	—	113,71	208,09	5,62	48,06	,4761	22	,97305	—	372,18	466,78	6,40	21,47	,2127
71	,93888	—	115,32	209,65	5,67	47,70	,4725	21	,97389	—	389,90	483,54	6,36	20,68	,2049
100 + 70	,93949	—	116,97	211,27	5,70	47,33	,4689	100 + 20	,97473	—	409,40	503,09	6,31	19,88	,1969
69	,94010	—	118,66	212,93	5,73	46,96	,4653	19	,97560	—	430,94	524,69	6,25	19,06	,1888
68	,94072	—	120,40	214,64	5,76	46,59	,4616	18	,97648	—	454,89	548,69	6,20	18,22	,1806
67	,94134	—	122,20	216,41	5,79	46,21	,4578	17	,97739	—	481,65	575,51	6,14	17,37	,1722
66	,94197	—	124,06	218,22	5,84	45,82	,4540	16	,97830	—	511,75	605,68	6,07	16,51	,1636
100 + 65	,94262	—	125,97	220,10	5,87	45,43	,4501	100 + 15	,97924	—	545,87	639,88	5,99	15,63	,1548
64	,94325	—	127,93	222,03	5,90	45,04	,4462	14	,98020	—	584,86	678,96	5,90	14,73	,1459
63	,94389	—	129,96	224,03	5,93	44,64	,4422	13	,98120	—	629,85	724,04	5,81	13,81	,1368
62	,94454	—	132,05	226,10	5,95	44,23	,4382	12	,98222	—	682,34	776,62	5,72	12,87	,1276
61	,94520	—	134,22	228,22	6,00	43,82	,4341	11	,98328	—	744,37	838,76	5,61	11,92	,1181
100 + 60	,94585	—	136,46	230,43	6,03	43,40	,4299	100 + 10	,98436	—	818,80	913,28	5,52	10,95	,1085
59	,94651	—	138,77	232,70	6,07	42,97	,4258	9	,98550	—	909,78	1004,40	5,38	9,96	,0986
58	,94718	—	141,16	235,06	6,10	42,54	,4215	8	,98668	—	1023,51	1118,26	5,25	8,94	,0886
57	,94785	—	143,64	237,50	6,14	42,10	,4172	7	,98791	—	1169,77	1264,60	5,17	7,91	,0783
56	,94852	—	146,21	240,03	6,18	41,66	,4128	6	,98918	—	1364,68	1459,69	4,99	6,85	,0679
100 + 55	,94920	—	148,86	242,65	6,21	41,21	,4083	100 + 5	,99051	—	1637,62	1732,75	4,87	5,77	,0572
54	,94986	—	151,59	245,37	6,22	40,75	,4038	4	,99191	—	2047,03	2142,33	4,70	4,67	,0462
53	,95053	—	154,44	248,20	6,24	40,29	,3992	3	,99337	—	2729,36	2824,82	4,54	3,54	,0351
52	,95121	—	157,43	251,15	6,28	39,82	,3945	2	,99490	—	4094,04	4189,62	4,42	2,39	,0236
51	,95188	—	160,53	254,23	6,30	39,33	,3897	1	,99650	—	8188,08	8283,78	4,30	1,21	,0120

TABLE I.

HEAT 77°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81680	100	—	100,00	—	100,00	,9901	100 + 50	,88922	100	40,92	137,78	3,14	72,58	,7186
1	,81911	—	0,82	100,72	0,10	99,29	,9830	51	,89017	—	41,74	138,56	3,18	72,17	,7146
2	,82136	—	1,64	101,44	0,20	98,59	,9761	52	,89106	—	42,56	139,33	3,23	71,77	,7106
3	,82357	—	2,46	102,16	0,30	97,89	,9692	53	,89195	—	43,37	140,11	3,26	71,37	,7067
4	,82571	—	3,28	102,88	0,40	97,21	,9624	54	,89283	—	44,19	140,89	3,30	70,98	,7028
100 + 5	,82780	—	4,10	103,61	0,49	96,52	,9556	100 + 55	,89369	—	45,01	141,66	3,35	70,59	,6989
6	,82984	—	4,91	104,34	0,57	95,84	,9490	56	,89453	—	45,83	142,44	3,39	70,21	,6951
7	,83183	—	5,73	105,07	0,66	95,17	,9423	57	,89536	—	46,64	143,22	3,42	69,82	,6913
8	,83378	—	6,55	105,81	0,74	94,51	,9357	58	,89619	—	47,46	144,00	3,46	69,44	,6875
9	,83568	—	7,36	106,54	0,82	93,86	,9292	59	,89700	—	48,28	144,78	3,50	69,06	,6838
100 + 10	,83752	—	8,18	107,28	0,91	93,21	,9229	100 + 60	,89780	—	49,10	145,56	3,54	68,69	,6801
11	,83933	—	9,00	108,02	0,98	92,57	,9166	61	,89858	—	49,92	146,35	3,57	68,33	,6766
12	,84108	—	9,82	108,77	1,05	91,94	,9103	62	,89934	—	50,74	147,13	3,61	67,96	,6730
13	,84280	—	10,64	109,51	1,13	91,31	,9041	63	,90010	—	51,56	147,91	3,65	67,60	,6694
14	,84449	—	11,46	110,26	1,20	90,69	,8980	64	,90085	—	52,38	148,69	3,69	67,25	,6659
100 + 15	,84613	—	12,28	111,01	1,27	90,08	,8919	100 + 65	,90159	—	53,19	149,48	3,71	66,90	,6623
16	,84775	—	13,10	111,76	1,34	89,47	,8859	66	,90235	—	54,02	150,26	3,76	66,55	,6589
17	,84934	—	13,91	112,51	1,40	88,87	,8800	67	,90309	—	54,84	151,04	3,80	66,20	,6555
18	,85091	—	14,73	113,27	1,46	88,28	,8741	68	,90382	—	55,65	151,81	3,84	65,86	,6521
19	,85244	—	15,55	114,02	1,53	87,70	,8683	69	,90454	—	56,47	152,60	3,87	65,53	,6488
100 + 20	,85397	—	16,36	114,78	1,58	87,12	,8626	100 + 70	,90523	—	57,28	153,38	3,90	65,19	,6454
21	,85544	—	17,18	115,53	1,65	86,55	,8570	71	,90594	—	58,11	154,17	3,94	64,86	,6422
22	,85690	—	18,00	116,29	1,71	85,99	,8514	72	,90662	—	58,92	154,96	3,96	64,53	,6389
23	,85834	—	18,82	117,04	1,78	85,44	,8459	73	,90729	—	59,74	155,75	3,99	64,20	,6357
24	,85975	—	19,64	117,80	1,84	84,89	,8404	74	,90795	—	60,56	156,53	4,03	63,88	,6325
100 + 25	,86113	—	20,46	118,56	1,90	84,34	,8350	100 + 75	,90862	—	61,38	157,31	4,07	63,57	,6293
26	,86249	—	21,28	119,32	1,96	83,80	,8297	76	,90926	—	62,20	158,11	4,09	63,25	,6262
27	,86382	—	22,10	120,09	2,01	83,27	,8244	77	,90990	—	63,02	158,89	4,13	62,93	,6231
28	,86514	—	22,92	120,85	2,07	82,75	,8192	78	,91054	—	63,84	159,67	4,17	62,62	,6200
29	,86642	—	23,73	121,61	2,12	82,23	,8141	79	,91117	—	64,65	160,46	4,19	62,32	,6170
100 + 30	,86768	—	24,56	122,38	2,18	81,72	,8090	100 + 80	,91181	—	65,47	161,24	4,23	62,02	,6140
31	,86892	—	25,36	123,14	2,22	81,21	,8040	81	,91241	—	66,29	162,04	4,25	61,71	,6110
32	,87015	—	26,19	123,91	2,28	80,71	,7990	82	,91301	—	67,11	162,82	4,29	61,41	,6081
33	,87136	—	27,01	124,67	2,34	80,21	,7941	83	,91361	—	67,92	163,61	4,31	61,13	,6052
34	,87256	—	27,83	125,44	2,39	79,72	,7893	84	,91420	—	68,74	164,40	4,34	60,83	,6023
100 + 35	,87372	—	28,65	126,20	2,45	79,23	,7845	100 + 85	,91478	—	69,56	165,19	4,37	60,54	,5994
36	,87485	—	29,46	126,97	2,49	78,75	,7797	86	,91536	—	70,38	165,98	4,40	60,25	,5965
37	,87596	—	30,28	127,74	2,54	78,27	,7750	87	,91593	—	71,20	166,76	4,44	59,97	,5937
38	,87706	—	31,10	128,51	2,59	77,81	,7704	88	,91649	—	72,02	167,55	4,47	59,68	,5909
39	,87815	—	31,92	129,29	2,63	77,35	,7658	89	,91704	—	72,84	168,34	4,50	59,40	,5881
100 + 40	,87921	—	32,74	130,06	2,68	76,89	,7613	100 + 90	,91758	—	73,66	169,13	4,53	59,13	,5854
41	,88029	—	33,56	130,83	2,73	76,43	,7568	91	,91812	—	74,48	169,92	4,56	58,85	,5827
42	,88134	—	34,37	131,60	2,77	75,99	,7523	92	,91866	—	75,29	170,71	4,58	58,58	,5800
43	,88239	—	35,19	132,37	2,82	75,55	,7479	93	,91920	—	76,11	171,50	4,61	58,31	,5773
44	,88343	—	36,01	133,14	2,87	75,11	,7436	94	,91972	—	76,93	172,29	4,64	58,04	,5747
100 + 45	,88442	—	36,83	133,91	2,92	74,68	,7393	100 + 95	,92023	—	77,75	173,08	4,67	57,77	,5720
46	,88543	—	37,64	134,68	2,96	74,25	,7351	96	,92074	—	78,56	173,86	4,70	57,51	,5695
47	,88640	—	38,46	135,46	3,00	73,82	,7309	97	,92125	—	79,37	174,65	4,72	57,26	,5669
48	,88736	—	39,28	136,23	3,05	73,40	,7268	98	,92175	—	80,20	175,44	4,76	57,00	,5643
49	,88831	—	40,10	137,01	3,09	72,99	,7227	99	,92226	—	81,01	176,23	4,78	56,74	,5618

TABLE II.

HEAT 77°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92275	100	81.84	177.04	4.80	56.48	.5592	100 + 50	.95219	100	163.68	257.34	6.34	38.86	.3847
99	.92326	—	82.67	177.84	4.83	56.23	.5567	49	.95289	—	167.02	260.64	6.38	38.36	.3798
98	.92375	—	83.52	178.66	4.86	55.97	.5541	48	.95359	—	170.50	264.11	6.39	37.86	.3748
97	.92425	—	84.38	179.49	4.89	55.71	.5516	47	.95429	—	174.13	267.71	6.42	37.35	.3698
96	.92475	—	85.26	180.34	4.92	55.44	.5490	46	.95500	—	177.91	271.46	6.45	36.83	.3647
100 + 95	.92525	—	86.15	181.20	4.95	55.18	.5464	100 + 45	.95569	—	181.86	275.39	6.47	36.31	.3595
94	.92575	—	87.06	182.09	4.97	54.92	.5437	44	.95640	—	186.00	279.50	6.50	35.77	.3542
93	.92625	—	87.99	183.00	4.99	54.65	.5410	43	.95710	—	190.33	283.81	6.52	35.23	.3489
92	.92676	—	88.95	183.93	5.02	54.37	.5383	42	.95781	—	194.86	288.34	6.52	34.68	.3434
91	.92727	—	89.93	184.89	5.04	54.08	.5355	41	.95852	—	199.61	293.07	6.54	34.12	.3378
100 + 90	.92778	—	90.93	185.86	5.07	53.80	.5327	100 + 40	.95922	—	204.00	298.03	6.57	33.55	.3322
89	.92830	—	91.95	186.84	5.11	53.51	.5299	39	.95994	—	209.85	303.26	6.59	32.97	.3265
88	.92883	—	93.00	187.87	5.13	53.23	.5270	38	.96066	—	215.37	308.77	6.60	32.38	.3207
87	.92937	—	94.07	188.91	5.16	52.94	.5241	37	.96138	—	221.19	314.59	6.60	31.78	.3147
86	.92991	—	95.16	189.97	5.19	52.64	.5212	36	.96211	—	227.34	320.72	6.62	31.18	.3087
100 + 85	.93046	—	96.28	191.05	5.23	52.34	.5182	100 + 35	.96280	—	233.83	327.21	6.62	30.56	.3026
84	.93102	—	97.43	192.17	5.26	52.04	.5152	34	.96356	—	240.71	334.09	6.62	29.93	.2964
83	.93158	—	98.60	193.32	5.28	51.73	.5121	33	.96429	—	248.00	341.40	6.60	29.29	.2900
82	.93215	—	99.80	194.48	5.32	51.42	.5090	32	.96503	—	255.76	349.16	6.60	28.64	.2835
81	.93272	—	101.04	195.68	5.36	51.10	.5059	31	.96577	—	264.01	357.41	6.60	27.98	.2770
100 + 80	.93327	—	102.30	196.91	5.39	50.78	.5028	100 + 30	.96652	—	272.80	366.20	6.60	27.31	.2704
79	.93385	—	103.59	198.17	5.44	50.45	.4996	29	.96728	—	282.21	375.63	6.58	26.62	.2636
78	.93441	—	104.92	199.47	5.45	50.12	.4963	28	.96804	—	292.29	385.73	6.56	25.92	.2567
77	.93498	—	106.29	200.81	5.48	49.80	.4930	27	.96881	—	303.11	396.58	6.53	25.22	.2497
76	.93555	—	107.69	202.18	5.51	49.46	.4897	26	.96958	—	314.77	408.25	6.52	24.50	.2426
100 + 75	.93611	—	109.12	203.59	5.53	49.11	.4863	100 + 25	.97038	—	327.37	420.87	6.50	23.76	.2352
74	.93670	—	110.59	205.03	5.56	48.77	.4829	24	.97117	—	341.01	434.54	6.47	23.01	.2279
73	.93728	—	112.10	206.52	5.58	48.42	.4794	23	.97199	—	355.83	449.39	6.44	22.25	.2203
72	.93784	—	113.66	208.06	5.60	48.07	.4759	22	.97282	—	372.00	466.60	6.40	21.48	.2126
71	.93847	—	115.27	209.62	5.65	47.70	.4723	21	.97366	—	389.72	483.35	6.37	20.69	.2048
100 + 70	.93908	—	116.92	211.24	5.68	47.34	.4687	100 + 20	.97451	—	409.21	502.89	6.32	19.89	.1969
69	.93969	—	118.60	212.90	5.70	46.97	.4651	19	.97538	—	430.74	524.48	6.26	19.07	.1888
68	.94031	—	120.35	214.60	5.75	46.59	.4614	18	.97627	—	454.67	548.47	6.20	18.23	.1805
67	.94094	—	122.14	216.37	5.77	46.22	.4576	17	.97718	—	481.42	575.28	6.14	17.38	.1721
66	.94157	—	124.00	218.18	5.82	45.83	.4538	16	.97810	—	511.51	605.43	6.08	16.52	.1636
100 + 65	.94222	—	125.91	220.03	5.86	45.44	.4499	100 + 15	.97905	—	545.61	639.61	6.00	15.63	.1548
64	.94285	—	127.87	221.99	5.88	45.04	.4460	14	.98003	—	584.58	678.68	5.90	14.73	.1459
63	.94350	—	129.90	223.98	5.92	44.64	.4421	13	.98101	—	629.56	723.73	5.82	13.81	.1368
62	.94415	—	131.99	226.05	5.94	44.23	.4380	12	.98203	—	682.02	776.29	5.73	12.88	.1275
61	.94481	—	134.16	228.18	5.98	43.82	.4339	11	.98310	—	744.02	838.40	5.62	11.93	.1181
100 + 60	.94546	—	136.39	230.38	6.01	43.41	.4297	100 + 10	.98418	—	818.42	912.89	5.53	10.95	.1085
59	.94613	—	138.70	232.65	6.05	42.98	.4256	9	.98533	—	909.36	1003.96	5.40	9.96	.0986
58	.94680	—	141.09	235.01	6.08	42.55	.4213	8	.98651	—	1023.03	1117.76	5.27	8.95	.0886
57	.94747	—	143.57	237.45	6.12	42.11	.4170	7	.98775	—	1169.21	1264.03	5.18	7.91	.0783
56	.94810	—	146.14	239.98	6.16	41.67	.4126	6	.98902	—	1304.04	1459.02	5.02	6.85	.0679
100 + 55	.94882	—	148.79	242.60	6.19	41.21	.4081	100 + 5	.99036	—	1630.85	1731.95	4.90	5.77	.0572
54	.94948	—	151.52	245.31	6.21	40.76	.4036	4	.99176	—	2046.06	2141.34	4.72	4.67	.0462
53	.95016	—	154.37	248.15	6.22	40.30	.3990	3	.99323	—	2728.08	2823.50	4.58	3.54	.0351
52	.95084	—	157.36	251.09	6.27	39.83	.3943	2	.99476	—	4092.12	4187.66	4.46	2.39	.0236
51	.95151	—	160.45	254.18	6.27	39.34	.3895	1	.99636	—	8184.23	8279.90	4.33	1.21	.0120

TABLE I.

HEAT 78°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81630	100	—	100,00	—	100,00	,9894	100 + 50	,88875	100	40,90	137,77	3,13	72,59	,7182
1	,81861	—	0,82	100,72	0,10	99,29	,9824	51	,88969	—	41,72	138,55	3,17	72,18	,7142
2	,82086	—	1,64	101,44	0,20	98,59	,9755	52	,89059	—	42,54	139,32	3,22	71,78	,7102
3	,82308	—	2,46	102,16	0,30	97,89	,9686	53	,89148	—	43,35	140,10	3,25	71,38	,7063
4	,82522	—	3,28	102,88	0,40	97,21	,9618	54	,89235	—	44,17	140,88	3,29	70,99	,7024
100 + 5	,82730	—	4,09	103,60	0,49	96,52	,9551	100 + 55	,89321	—	44,99	141,65	3,34	70,60	,6985
6	,82935	—	4,91	104,34	0,57	95,85	,9484	56	,89406	—	45,81	142,43	3,38	70,21	,6947
7	,83134	—	5,73	105,07	0,66	95,18	,9418	57	,89489	—	46,62	143,21	3,41	69,83	,6909
8	,83328	—	6,55	105,81	0,74	94,52	,9352	58	,89572	—	47,44	143,99	3,45	69,45	,6872
9	,83518	—	7,36	106,54	0,82	93,86	,9287	59	,89653	—	48,26	144,77	3,49	69,07	,6835
100 + 10	,83702	—	8,18	107,28	0,90	93,21	,9223	100 + 60	,89733	—	49,08	145,55	3,53	68,70	,6798
11	,83883	—	9,00	108,02	0,98	92,57	,9160	61	,89811	—	49,89	146,33	3,56	68,34	,6762
12	,84059	—	9,82	108,77	1,05	91,94	,9098	62	,89888	—	50,71	147,11	3,60	67,97	,6726
13	,84231	—	10,63	109,51	1,12	91,31	,9035	63	,89964	—	51,53	147,89	3,64	67,61	,6690
14	,84400	—	11,45	110,26	1,19	90,69	,8974	64	,90039	—	52,35	148,68	3,67	67,26	,6655
100 + 15	,84564	—	12,27	111,01	1,26	90,08	,8914	100 + 65	,90113	—	53,16	149,46	3,70	66,91	,6620
16	,84727	—	13,09	111,76	1,33	89,47	,8854	66	,90188	—	53,99	150,24	3,75	66,56	,6586
17	,84886	—	13,91	112,51	1,40	88,88	,8795	67	,90262	—	54,81	151,02	3,79	66,21	,6552
18	,85042	—	14,73	113,26	1,47	88,28	,8736	68	,90336	—	55,62	151,80	3,82	65,87	,6518
19	,85195	—	15,54	114,02	1,52	87,70	,8678	69	,90407	—	56,44	152,58	3,86	65,54	,6484
100 + 20	,85347	—	16,35	114,78	1,57	87,13	,8622	100 + 70	,90477	—	57,26	153,36	3,90	65,20	,6451
21	,85495	—	17,18	115,53	1,65	86,56	,8565	71	,90547	—	58,08	154,16	3,92	64,87	,6419
22	,85641	—	18,00	116,29	1,71	85,99	,8509	72	,90615	—	58,89	154,94	3,95	64,54	,6386
23	,85784	—	18,82	117,04	1,78	85,44	,8454	73	,90683	—	59,71	155,73	3,98	64,22	,6354
24	,85926	—	19,63	117,80	1,83	84,89	,8400	74	,90749	—	60,53	156,51	4,02	63,89	,6322
100 + 25	,86064	—	20,45	118,56	1,89	84,34	,8346	100 + 75	,90816	—	61,35	157,29	4,06	63,57	,6290
26	,86200	—	21,27	119,32	1,95	83,80	,8293	76	,90880	—	62,17	158,09	4,08	63,26	,6259
27	,86333	—	22,09	120,08	2,01	83,27	,8240	77	,90945	—	62,99	158,87	4,12	62,94	,6228
28	,86465	—	22,90	120,84	2,06	82,75	,8188	78	,91008	—	63,81	159,65	4,16	62,63	,6197
29	,86594	—	23,72	121,60	2,12	82,23	,8137	79	,91071	—	64,62	160,44	4,18	62,33	,6167
100 + 30	,86719	—	24,54	122,37	2,17	81,72	,8086	100 + 80	,91136	—	65,44	161,22	4,22	62,02	,6137
31	,86844	—	25,35	123,14	2,21	81,21	,8036	81	,91195	—	66,26	162,02	4,24	61,72	,6107
32	,86967	—	26,18	123,91	2,27	80,71	,7986	82	,91255	—	67,08	162,81	4,27	61,43	,6078
33	,87089	—	26,99	124,67	2,32	80,22	,7937	83	,91315	—	67,89	163,59	4,30	61,13	,6049
34	,87208	—	27,81	125,44	2,37	79,73	,7889	84	,91374	—	68,71	164,38	4,33	60,83	,6020
100 + 35	,87324	—	28,64	126,20	2,44	79,24	,7841	100 + 85	,91432	—	69,53	165,17	4,36	60,54	,5991
36	,87437	—	29,45	126,97	2,48	78,76	,7793	86	,91490	—	70,35	165,96	4,39	60,26	,5962
37	,87548	—	30,27	127,73	2,54	78,28	,7746	87	,91547	—	71,17	166,74	4,43	59,98	,5934
38	,87658	—	31,09	128,51	2,58	77,81	,7700	88	,91603	—	71,98	167,53	4,45	59,69	,5906
39	,87767	—	31,90	129,28	2,62	77,35	,7654	89	,91659	—	72,80	168,32	4,48	59,41	,5878
100 + 40	,87873	—	32,72	130,06	2,66	76,89	,7609	100 + 90	,91713	—	73,62	169,11	4,51	59,13	,5851
41	,87981	—	33,54	130,83	2,71	76,44	,7564	91	,91767	—	74,44	169,90	4,54	58,86	,5824
42	,88086	—	34,36	131,59	2,77	75,99	,7519	92	,91821	—	75,25	170,69	4,56	58,59	,5797
43	,88191	—	35,17	132,36	2,81	75,55	,7475	93	,91875	—	76,08	171,48	4,60	58,32	,5770
44	,88295	—	35,99	133,13	2,86	75,11	,7432	94	,91928	—	76,90	172,27	4,63	58,05	,5744
100 + 45	,88395	—	36,81	133,90	2,91	74,68	,7389	100 + 95	,91979	—	77,71	173,06	4,65	57,78	,5717
46	,88496	—	37,62	134,67	2,95	74,25	,7347	96	,92030	—	78,52	173,83	4,69	57,52	,5692
47	,88593	—	38,44	135,45	2,99	73,83	,7305	97	,92081	—	79,33	174,63	4,70	57,26	,5666
48	,88689	—	39,26	136,22	3,04	73,41	,7264	98	,92131	—	80,16	175,42	4,74	57,00	,5641
49	,88784	—	40,08	137,00	3,08	73,00	,7223	99	,92182	—	80,97	176,20	4,77	56,75	,5616

TABLE II.

HEAT 78°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92230	100	81,80	177,01	4,79	56,49	.5590	100 + 50	.95183	100	163,60	257,28	6,32	38,87	.3846
99	.92281	—	82,63	177,81	4,82	56,23	.5564	49	.95253	—	166,94	260,58	6,36	38,37	.3797
98	.92331	—	83,48	178,63	4,85	55,97	.5539	48	.95323	—	170,42	264,04	6,38	37,87	.3747
97	.92381	—	84,34	179,46	4,88	55,71	.5513	47	.95394	—	174,05	267,64	6,41	37,36	.3697
96	.92431	—	85,22	180,31	4,91	55,45	.5488	46	.95465	—	177,83	271,39	6,44	36,84	.3646
100 + 95	.92481	—	86,11	181,17	4,94	55,19	.5461	100 + 45	.95535	—	181,78	275,32	6,46	36,32	.3594
94	.92531	—	87,02	182,07	4,95	54,93	.5434	44	.95606	—	185,91	279,43	6,48	35,78	.3541
93	.92581	—	87,95	182,97	4,98	54,65	.5407	43	.95677	—	190,24	283,74	6,50	35,24	.3488
92	.92632	—	88,91	183,90	5,01	54,37	.5380	42	.95748	—	194,77	288,26	6,51	34,69	.3433
91	.92683	—	89,89	184,86	5,03	54,09	.5352	41	.95819	—	199,52	292,99	6,53	34,13	.3377
100 + 90	.92734	—	90,89	185,84	5,05	53,81	.5324	100 + 40	.95890	—	204,51	297,95	6,56	33,56	.3321
89	.92786	—	91,91	186,81	5,10	53,52	.5296	39	.95962	—	209,75	303,18	6,57	32,98	.3264
88	.92840	—	92,95	187,84	5,11	53,24	.5267	38	.96034	—	215,27	308,69	6,58	32,39	.3206
87	.92894	—	94,02	188,88	5,14	52,95	.5238	37	.96107	—	221,08	314,50	6,58	31,79	.3146
86	.92948	—	95,11	189,94	5,17	52,65	.5209	36	.96180	—	227,23	320,64	6,59	31,19	.3086
100 + 85	.93003	—	96,23	191,03	5,20	52,35	.5179	100 + 35	.96250	—	233,72	327,11	6,61	30,57	.3025
84	.93059	—	97,38	192,14	5,24	52,05	.5149	34	.96326	—	240,59	333,99	6,60	29,94	.2963
83	.93115	—	98,55	193,28	5,27	51,74	.5119	33	.96400	—	247,89	341,30	6,59	29,30	.2900
82	.93172	—	99,75	194,45	5,30	51,42	.5088	32	.96474	—	255,64	349,05	6,59	28,65	.2835
81	.93229	—	101,00	195,65	5,35	51,11	.5057	31	.96549	—	263,88	357,30	6,58	27,99	.2770
100 + 80	.93285	—	102,25	196,87	5,38	50,79	.5025	100 + 30	.96624	—	272,67	366,08	6,59	27,32	.2703
79	.93343	—	103,54	198,13	5,41	50,46	.4994	29	.96700	—	282,08	375,50	6,58	26,63	.2635
78	.93399	—	104,87	199,44	5,43	50,13	.4961	28	.96777	—	292,15	385,60	6,55	25,93	.2566
77	.93456	—	106,24	200,78	5,46	49,81	.4928	27	.96855	—	302,97	396,44	6,53	25,23	.2496
76	.93513	—	107,64	202,14	5,50	49,47	.4895	26	.96933	—	314,62	408,10	6,52	24,50	.2425
100 + 75	.93570	—	109,07	203,55	5,52	49,12	.4861	100 + 25	.97013	—	327,21	420,72	6,49	23,77	.2352
74	.93629	—	110,54	205,00	5,54	48,78	.4827	24	.97093	—	340,85	434,38	6,47	23,02	.2278
73	.93687	—	112,05	206,48	5,57	48,43	.4792	23	.97175	—	355,66	449,22	6,44	22,26	.2203
72	.93743	—	113,61	208,02	5,59	48,08	.4757	22	.97259	—	371,83	466,43	6,40	21,49	.2126
71	.93806	—	115,21	209,58	5,63	47,71	.4721	21	.97343	—	389,54	483,17	6,37	20,69	.2048
100 + 70	.93867	—	116,86	211,20	5,66	47,35	.4685	100 + 20	.97429	—	409,02	502,70	6,32	19,89	.1968
69	.93928	—	118,54	212,86	5,68	46,98	.4649	19	.97516	—	430,54	524,27	6,27	19,07	.1887
68	.93991	—	120,29	214,56	5,73	46,60	.4612	18	.97606	—	454,46	548,26	6,20	18,23	.1805
67	.94054	—	122,08	216,33	5,75	46,23	.4574	17	.97697	—	481,20	575,05	6,15	17,39	.1721
66	.94117	—	123,94	218,14	5,80	45,84	.4536	16	.97790	—	511,27	605,18	6,09	16,53	.1635
100 + 65	.94182	—	125,85	220,01	5,84	45,45	.4497	100 + 15	.97885	—	545,35	639,35	6,00	15,64	.1548
64	.94246	—	127,81	221,95	5,86	45,05	.4458	14	.97983	—	584,30	678,40	5,90	14,74	.1459
63	.94311	—	129,84	223,94	5,90	44,65	.4419	13	.98082	—	629,26	723,42	5,84	13,82	.1368
62	.94376	—	131,93	226,00	5,93	44,24	.4378	12	.98185	—	681,70	775,96	5,74	12,88	.1275
61	.94442	—	134,10	228,13	5,97	43,83	.4337	11	.98292	—	743,67	838,04	5,63	11,93	.1181
100 + 60	.94508	—	136,33	230,33	6,00	43,42	.4296	100 + 10	.98401	—	818,03	912,49	5,54	10,96	.1084
59	.94575	—	138,64	232,60	6,04	42,99	.4254	9	.98516	—	908,93	1003,52	5,41	9,97	.0986
58	.94642	—	141,02	234,96	6,06	42,56	.4211	8	.98635	—	1022,55	1117,26	5,29	8,95	.0886
57	.94709	—	143,50	237,40	6,10	42,12	.4168	7	.98759	—	1168,05	1263,46	5,19	7,91	.0783
56	.94776	—	146,07	239,93	6,14	41,68	.4124	6	.98887	—	1363,40	1458,35	5,05	6,86	.0678
100 + 55	.94844	—	148,72	242,55	6,17	41,22	.4079	100 + 5	.99021	—	1636,08	1731,16	4,92	5,78	.0572
54	.94911	—	151,45	245,26	6,19	40,77	.4034	4	.99161	—	2045,10	2140,35	4,75	4,67	.0462
53	.94979	—	154,30	248,09	6,21	40,31	.3988	3	.99308	—	2727,80	2822,19	4,61	3,54	.0351
52	.95047	—	157,28	251,04	6,24	39,83	.3941	2	.99462	—	4090,20	4185,70	4,50	2,39	.0236
51	.95115	—	160,38	254,13	6,25	39,35	.3894	1	.99622	—	8180,39	8276,03	4,36	1,21	.0120



TABLE I.

HEAT 79°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81580	100	—	100,00	—	100,00	,9888	100 + 50	,88829	100	40,88	137,76	3,12	72,59	,7178
1	,81811	—	0,82	100,71	0,11	99,29	,9818	51	,88921	—	41,70	138,54	3,16	72,18	,7138
2	,82037	—	1,63	101,43	0,20	98,59	,9749	52	,89011	—	42,52	139,31	3,21	71,78	,7098
3	,82258	—	2,45	102,15	0,30	97,89	,9680	53	,89100	—	43,33	140,09	3,24	71,39	,7059
4	,82472	—	3,27	102,87	0,40	97,21	,9612	54	,89187	—	44,15	140,87	3,28	71,00	,7020
100 + 5	,82681	—	4,09	103,60	0,49	96,52	,9545	100 + 55	,89273	—	44,97	141,64	3,33	70,60	,6981
6	,82885	—	4,90	104,33	0,57	95,85	,9478	56	,89358	—	45,79	142,42	3,37	70,21	,6943
7	,83084	—	5,72	105,06	0,66	95,18	,9412	57	,89442	—	46,60	143,20	3,40	69,83	,6905
8	,83278	—	6,54	105,80	0,74	94,52	,9346	58	,89525	—	47,42	143,98	3,44	69,45	,6868
9	,83468	—	7,35	106,53	0,82	93,86	,9281	59	,89606	—	48,24	144,76	3,48	69,07	,6831
100 + 10	,83652	—	8,18	107,27	0,91	93,22	,9218	100 + 60	,89686	—	49,06	145,54	3,52	68,70	,6794
11	,83833	—	9,00	108,02	0,98	92,58	,9155	61	,89765	—	49,87	146,32	3,55	68,34	,6759
12	,84010	—	9,81	108,76	1,05	91,95	,9093	62	,89842	—	50,69	147,10	3,59	67,97	,6723
13	,84182	—	10,63	109,50	1,13	91,32	,9030	63	,89918	—	51,51	147,88	3,63	67,61	,6687
14	,84351	—	11,45	110,26	1,19	90,70	,8969	64	,89993	—	52,32	148,66	3,66	67,26	,6651
100 + 15	,84516	—	12,27	111,01	1,26	90,09	,8908	100 + 65	,90067	—	53,14	149,45	3,69	66,91	,6617
16	,84678	—	13,09	111,76	1,33	89,48	,8848	66	,90142	—	53,96	150,23	3,73	66,56	,6583
17	,84837	—	13,90	112,51	1,39	88,88	,8790	67	,90216	—	54,78	151,01	3,77	66,21	,6549
18	,84993	—	14,72	113,26	1,46	88,29	,8731	68	,90289	—	55,59	151,79	3,80	65,87	,6515
19	,85146	—	15,54	114,02	1,52	87,70	,8673	69	,90361	—	56,41	152,57	3,84	65,54	,6482
100 + 20	,85298	—	16,35	114,78	1,57	87,13	,8617	100 + 70	,90431	—	57,23	153,35	3,88	65,21	,6448
21	,85446	—	17,17	115,52	1,65	86,56	,8560	71	,90501	—	58,05	154,15	3,90	64,87	,6416
22	,85592	—	17,99	116,28	1,71	86,00	,8504	72	,90569	—	58,86	154,92	3,94	64,54	,6383
23	,85735	—	18,81	117,03	1,78	85,45	,8449	73	,90637	—	59,68	155,71	3,97	64,22	,6351
24	,85877	—	19,62	117,79	1,83	84,90	,8395	74	,90703	—	60,50	156,49	4,01	63,90	,6319
100 + 25	,86015	—	20,44	118,55	1,89	84,35	,8341	100 + 75	,90770	—	61,32	157,28	4,04	63,58	,6287
26	,86151	—	21,26	119,31	1,95	83,81	,8288	76	,90834	—	62,14	158,07	4,07	63,26	,6256
27	,86284	—	22,08	120,08	2,00	83,28	,8235	77	,90899	—	62,96	158,85	4,11	62,95	,6225
28	,86416	—	22,89	120,84	2,05	82,76	,8183	78	,90963	—	63,78	159,63	4,15	62,64	,6194
29	,86545	—	23,71	121,60	2,11	82,24	,8132	79	,91026	—	64,59	160,42	4,17	62,33	,6164
100 + 30	,86670	—	24,53	122,37	2,16	81,73	,8081	100 + 80	,91091	—	65,41	161,20	4,21	62,03	,6134
31	,86796	—	25,34	123,13	2,21	81,22	,8031	81	,91149	—	66,23	162,00	4,23	61,73	,6104
32	,86920	—	26,16	123,90	2,26	80,72	,7982	82	,91209	—	67,05	162,79	4,26	61,43	,6075
33	,87041	—	26,98	124,66	2,32	80,22	,7932	83	,91269	—	67,86	163,57	4,29	61,14	,6046
34	,87160	—	27,80	125,43	2,37	79,73	,7884	84	,91328	—	68,68	164,36	4,32	60,84	,6017
100 + 35	,87276	—	28,02	126,19	2,43	79,24	,7836	100 + 85	,91386	—	69,50	165,15	4,35	60,55	,5988
36	,87389	—	29,43	126,96	2,47	78,76	,7789	86	,91444	—	70,31	165,94	4,37	60,26	,5959
37	,87500	—	30,25	127,73	2,52	78,28	,7742	87	,91501	—	71,13	166,72	4,41	59,98	,5931
38	,87610	—	31,07	128,50	2,57	77,82	,7696	88	,91557	—	71,95	167,51	4,44	59,69	,5903
39	,87719	—	31,89	129,27	2,62	77,36	,7650	89	,91613	—	72,77	168,30	4,47	59,41	,5875
100 + 40	,87824	—	32,71	130,05	2,66	76,90	,7605	100 + 90	,91668	—	73,59	169,09	4,50	59,14	,5848
41	,87933	—	33,53	130,82	2,71	76,44	,7560	91	,91722	—	74,40	169,88	4,52	58,86	,5821
42	,88038	—	34,34	131,58	2,76	76,00	,7515	92	,91776	—	75,22	170,67	4,55	58,59	,5794
43	,88143	—	35,16	132,35	2,81	75,56	,7471	93	,91830	—	76,04	171,46	4,58	58,32	,5767
44	,88247	—	35,97	133,12	2,85	75,12	,7428	94	,91883	—	76,86	172,24	4,62	58,05	,5741
100 + 45	,88348	—	36,80	133,89	2,91	74,69	,7385	100 + 95	,91935	—	77,68	173,03	4,65	57,79	,5715
46	,88448	—	37,60	134,66	2,94	74,26	,7343	96	,91986	—	78,48	173,81	4,67	57,53	,5689
47	,88546	—	38,42	135,44	2,98	73,83	,7301	97	,92037	—	79,29	174,61	4,68	57,27	,5663
48	,88642	—	39,24	136,21	3,03	73,41	,7260	98	,92087	—	80,12	175,40	4,72	57,01	,5638
49	,88736	—	40,06	136,99	3,07	73,00	,7219	99	,92138	—	80,93	176,18	4,75	56,75	,5613

TABLE II.

HEAT 79°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92186	100	81,76	176,98	4,78	56,50	.5587	100 + 50	.95147	100	163,52	257,22	6,30	38,88	.3845
99	.92237	—	82,59	177,79	4,80	56,24	.5562	49	.95217	—	166,86	260,52	6,34	38,38	.3796
98	.92286	—	83,44	178,61	4,83	55,98	.5536	48	.95288	—	170,34	263,97	6,37	37,88	.3746
97	.92337	—	84,30	179,44	4,86	55,72	.5511	47	.95359	—	173,97	267,57	6,40	37,37	.3696
96	.92387	—	85,18	180,29	4,89	55,46	.5485	46	.95430	—	177,74	271,32	6,42	36,85	.3645
100 + 95	.92437	—	86,07	181,15	4,92	55,20	.5459	100 + 45	.95501	—	181,69	275,25	6,44	36,33	.3593
94	.92487	—	86,98	182,04	4,94	54,93	.5432	44	.95572	—	185,82	279,36	6,46	35,79	.3540
93	.92537	—	87,91	182,95	4,96	54,66	.5405	43	.95644	—	190,15	283,67	6,48	35,25	.3487
92	.92588	—	88,87	183,88	4,99	54,38	.5378	42	.95715	—	194,68	288,19	6,49	34,70	.3432
91	.92639	—	89,35	184,84	5,01	54,10	.5350	41	.95787	—	199,43	292,91	6,52	34,14	.3376
100 + 90	.92690	—	90,85	185,81	5,04	53,82	.5322	100 + 40	.95858	—	204,41	297,87	6,54	33,57	.3320
89	.92743	—	91,87	186,79	5,08	53,53	.5294	39	.95930	—	209,65	303,10	6,55	32,99	.3263
88	.92797	—	92,91	187,81	5,10	53,25	.5265	38	.96003	—	215,17	308,60	6,57	32,40	.3205
87	.92851	—	93,98	188,85	5,13	52,95	.5236	37	.96076	—	220,98	314,42	6,56	31,80	.3145
86	.92905	—	95,07	189,91	5,16	52,65	.5207	36	.96149	—	227,13	320,56	6,57	31,20	.3085
100 + 85	.92960	—	96,19	191,00	5,19	52,35	.5177	100 + 35	.96220	—	233,61	327,01	6,60	30,58	.3024
84	.93016	—	97,33	192,11	5,22	52,05	.5147	34	.96296	—	240,48	333,89	6,59	29,95	.2962
83	.93072	—	98,50	193,25	5,25	51,75	.5117	33	.96371	—	247,77	341,20	6,57	29,31	.2899
82	.93129	—	99,70	194,42	5,28	51,43	.5086	32	.96445	—	255,52	348,94	6,58	28,66	.2834
81	.93187	—	100,95	195,62	5,33	51,12	.5055	31	.96521	—	263,76	357,18	6,58	28,00	.2769
100 + 80	.93243	—	102,20	196,84	5,36	50,80	.5023	100 + 30	.96596	—	272,54	365,96	6,58	27,33	.2702
79	.93301	—	103,49	198,10	5,39	50,47	.4992	29	.96673	—	281,95	375,38	6,57	26,64	.2635
78	.93357	—	104,82	199,40	5,42	50,14	.4959	28	.96750	—	292,01	385,47	6,54	25,94	.2566
77	.93414	—	106,19	200,74	5,45	49,81	.4926	27	.96829	—	302,83	396,30	6,53	25,23	.2496
76	.93472	—	107,59	202,11	5,48	49,47	.4893	26	.96908	—	314,47	407,95	6,52	24,51	.2424
100 + 75	.93529	—	109,02	203,51	5,51	49,13	.4859	100 + 25	.96988	—	327,06	420,57	6,49	23,78	.2351
74	.93588	—	110,49	204,96	5,53	48,79	.4825	24	.97069	—	340,69	434,22	6,47	23,03	.2278
73	.93646	—	112,00	206,45	5,55	48,44	.4790	23	.97151	—	355,49	449,06	6,43	22,27	.2203
72	.93702	—	113,55	207,98	5,57	48,08	.4755	22	.97236	—	371,66	466,26	6,40	21,49	.2125
71	.93765	—	115,15	209,54	5,61	47,72	.4719	21	.97321	—	389,36	482,99	6,37	20,70	.2047
100 + 70	.93826	—	116,80	211,16	5,64	47,36	.4683	100 + 20	.97407	—	408,83	502,51	6,32	19,90	.1968
69	.93888	—	118,49	212,82	5,67	46,99	.4647	19	.97494	—	430,34	524,07	6,27	19,08	.1887
68	.93951	—	120,23	214,52	5,71	46,61	.4610	18	.97585	—	454,25	548,04	6,21	18,24	.1804
67	.94014	—	122,02	216,29	5,73	46,23	.4572	17	.97676	—	480,97	574,82	6,15	17,39	.1720
66	.94077	—	123,88	218,10	5,78	45,85	.4534	16	.97770	—	511,03	604,94	6,09	16,53	.1635
100 + 65	.94142	—	125,79	219,97	5,82	45,46	.4495	100 + 15	.97865	—	545,10	639,09	6,01	15,65	.1547
64	.94207	—	127,75	221,91	5,84	45,06	.4456	14	.97963	—	584,03	678,12	5,91	14,75	.1458
63	.94272	—	129,78	223,90	5,88	44,66	.4417	13	.98063	—	628,97	723,12	5,85	13,83	.1367
62	.94337	—	131,87	225,96	5,91	44,25	.4376	12	.98167	—	681,38	775,63	5,75	12,89	.1275
61	.94403	—	134,04	228,09	5,95	43,84	.4336	11	.98274	—	743,32	837,68	5,64	11,94	.1180
100 + 60	.94469	—	136,27	230,28	5,99	43,43	.4294	100 + 10	.98384	—	817,65	912,10	5,55	10,96	.1084
59	.94537	—	138,57	232,55	6,02	43,00	.4252	9	.98499	—	908,51	1003,08	5,43	9,97	.0986
58	.94604	—	140,95	234,91	6,04	42,57	.4209	8	.98619	—	1022,07	1116,76	5,31	8,95	.0886
57	.94671	—	143,43	237,35	6,08	42,13	.4166	7	.98743	—	1168,09	1262,89	5,20	7,92	.0783
56	.94738	—	146,00	239,88	6,12	41,69	.4122	6	.98872	—	1362,76	1457,69	5,07	6,86	.0678
100 + 55	.94806	—	148,65	242,50	6,15	41,23	.4078	100 + 5	.99006	—	1635,31	1730,37	4,94	5,78	.0571
54	.94874	—	151,38	245,21	6,17	40,78	.4033	4	.99146	—	2044,14	2139,35	4,79	4,67	.0462
53	.94942	—	154,23	248,04	6,19	40,32	.3987	3	.99293	—	2725,51	2820,86	4,65	3,54	.0351
52	.95010	—	157,21	250,98	6,23	39,84	.3940	2	.99447	—	4088,27	4183,74	4,53	2,39	.0236
51	.95079	—	160,31	254,06	6,25	39,36	.3893	1	.99607	—	8176,55	8272,15	4,40	1,21	.0120

TABLE I.

HEAT 80°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Spirit and water by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
Sp. + W.								Sp. + W.							
100 + 0	,81530	100	—	100,00	—	100,00	,9882	100 + 50	,88781	100	40,86	137,75	3,11	72,60	,7174
1	,81761	—	0,82	100,71	0,11	99,29	,9812	51	,88873	—	41,68	138,53	3,15	72,19	,7134
2	,81987	—	1,63	101,43	0,20	98,59	,9743	52	,88963	—	42,50	139,30	3,20	71,79	,7094
3	,82207	—	2,45	102,15	0,30	97,89	,9674	53	,89052	—	43,31	140,08	3,23	71,40	,7055
4	,82422	—	3,27	102,87	0,40	97,21	,9606	54	,89139	—	44,13	140,86	3,27	71,01	,7016
100 + 5	,82631	—	4,09	103,60	0,49	96,52	,9539	100 + 55	,89225	—	44,95	141,63	3,32	70,61	,6977
6	,82835	—	4,90	104,33	0,57	95,85	,9472	56	,89310	—	45,77	142,41	3,36	70,22	,6939
7	,83034	—	5,72	105,06	0,66	95,18	,9406	57	,89394	—	46,58	143,19	3,39	69,84	,6901
8	,83228	—	6,54	105,80	0,74	94,52	,9340	58	,89477	—	47,40	143,97	3,43	69,46	,6864
9	,83418	—	7,35	106,53	0,82	93,86	,9275	59	,89559	—	48,22	144,75	3,47	69,08	,6827
100 + 10	,83603	—	8,17	107,27	0,90	93,22	,9212	100 + 60	,89639	—	49,04	145,53	3,51	68,71	,6791
11	,83783	—	8,99	108,01	0,98	92,58	,9149	61	,89718	—	49,85	146,31	3,54	68,35	,6755
12	,83960	—	9,81	108,76	1,05	91,95	,9087	62	,89795	—	50,67	147,09	3,58	67,98	,6719
13	,84133	—	10,62	109,50	1,12	91,32	,9025	63	,89871	—	51,49	147,87	3,62	67,62	,6683
14	,84302	—	11,44	110,25	1,19	90,70	,8964	64	,89947	—	52,30	148,65	3,65	67,27	,6648
100 + 15	,84467	—	12,26	111,00	1,26	90,09	,8903	100 + 65	,90021	—	53,12	149,44	3,68	66,92	,6613
16	,84629	—	13,08	111,75	1,33	89,48	,8843	66	,90095	—	53,94	150,22	3,72	66,57	,6579
17	,84788	—	13,89	112,50	1,39	88,88	,8784	67	,90169	—	54,76	151,00	3,76	66,22	,6545
18	,84944	—	14,71	113,26	1,45	88,29	,8726	68	,90242	—	55,57	151,78	3,79	65,88	,6511
19	,85097	—	15,53	114,01	1,52	87,71	,8668	69	,90314	—	56,39	152,56	3,83	65,55	,6478
100 + 20	,85248	—	16,34	114,77	1,57	87,13	,8611	100 + 70	,90385	—	57,21	153,34	3,87	65,21	,6445
21	,85397	—	17,16	115,52	1,64	86,56	,8555	71	,90454	—	58,03	154,13	3,90	64,88	,6412
22	,85543	—	17,98	116,28	1,70	86,00	,8499	72	,90522	—	58,84	154,91	3,93	64,55	,6379
23	,85686	—	18,80	117,03	1,77	85,45	,8444	73	,90590	—	59,66	155,70	3,96	64,23	,6347
24	,85827	—	19,61	117,79	1,82	84,90	,8390	74	,90657	—	60,48	156,48	4,00	63,91	,6315
100 + 25	,85966	—	20,43	118,55	1,88	84,35	,8336	100 + 75	,90723	—	61,29	157,27	4,02	63,59	,6284
26	,86102	—	21,25	119,31	1,94	83,81	,8283	76	,90788	—	62,11	158,05	4,06	63,27	,6253
27	,86235	—	22,07	120,07	2,00	83,28	,8231	77	,90853	—	62,93	158,84	4,09	62,96	,6222
28	,86367	—	22,88	120,83	2,05	82,76	,8179	78	,90917	—	63,75	159,62	4,13	62,65	,6191
29	,86496	—	23,70	121,59	2,11	82,24	,8128	79	,90980	—	64,56	160,41	4,15	62,34	,6161
100 + 30	,86622	—	24,52	122,36	2,16	81,73	,8077	100 + 80	,91046	—	65,38	161,19	4,19	62,04	,6131
31	,86748	—	25,33	123,12	2,21	81,22	,8027	81	,91103	—	66,20	161,98	4,22	61,74	,6101
32	,86872	—	26,15	123,89	2,26	80,72	,7977	82	,91163	—	67,02	162,77	4,25	61,44	,6071
33	,86993	—	26,97	124,65	2,32	80,23	,7928	83	,91223	—	67,83	163,55	4,28	61,14	,6042
34	,87112	—	27,79	125,42	2,37	79,74	,7880	84	,91282	—	68,65	164,34	4,31	60,85	,6013
100 + 35	,87228	—	28,60	126,18	2,42	79,25	,7832	100 + 85	,91340	—	69,47	165,13	4,34	60,56	,5985
36	,87341	—	29,42	126,95	2,47	78,77	,7784	86	,91398	—	70,28	165,92	4,36	60,27	,5956
37	,87452	—	30,24	127,72	2,52	78,29	,7737	87	,91455	—	71,10	166,71	4,39	59,99	,5928
38	,87562	—	31,06	128,49	2,57	77,82	,7691	88	,91511	—	71,92	167,49	4,43	59,70	,5900
39	,87670	—	31,87	129,26	2,61	77,36	,7645	89	,91567	—	72,74	168,28	4,46	59,42	,5872
100 + 40	,87776	—	32,69	130,04	2,65	76,90	,7600	100 + 90	,91622	—	73,55	169,07	4,48	59,15	,5845
41	,87884	—	33,51	130,81	2,70	76,45	,7555	91	,91677	—	74,37	169,86	4,51	58,87	,5818
42	,87990	—	34,32	131,57	2,75	76,00	,7511	92	,91731	—	75,19	170,65	4,54	58,60	,5791
43	,88095	—	35,14	132,34	2,80	75,56	,7467	93	,91785	—	76,00	171,44	4,56	58,33	,5764
44	,88199	—	35,96	133,11	2,85	75,12	,7424	94	,91838	—	76,82	172,22	4,60	58,06	,5738
100 + 45	,88301	—	36,78	133,88	2,90	74,69	,7381	100 + 95	,91891	—	77,64	173,01	4,63	57,80	,5712
46	,88400	—	37,59	134,65	2,94	74,26	,7339	96	,91942	—	78,45	173,79	4,66	57,54	,5686
47	,88498	—	38,41	135,43	2,98	73,84	,7297	97	,91993	—	79,26	174,58	4,68	57,28	,5661
48	,88594	—	39,23	136,20	3,03	73,42	,7256	98	,92043	—	80,08	175,37	4,71	57,02	,5635
49	,88688	—	40,04	136,98	3,06	73,01	,7215	99	,92093	—	80,90	176,16	4,74	56,76	,5610

*for Spirituous Liquors.*

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TABLE II.

HEAT 80°.

I.	II.	III.	IV.	V.	VI.	VII.	VIII.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.
Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.	Water and spirit by weight.	Specific gravity.	Spirit by measure.	Water by measure.	Bulk of mixture.	Diminution of bulk.	Quantity of spirit per cent.	Decimal multipliers.
W. + Sp.								W. + Sp.							
100 + 100	.92142	100	81.73	176.96	4.77	56.51	.5584	100 + 50	.95111	100	163.45	257.16	6.29	38.89	.3843
99	.92192	—	82.56	177.77	4.79	56.25	.5559	49	.95181	—	160.79	260.46	6.33	38.39	.3794
98	.92242	—	83.40	178.59	4.81	55.99	.5533	48	.95252	—	170.26	263.91	6.35	37.89	.3744
97	.92293	—	84.26	179.42	4.84	55.73	.5508	47	.95324	—	173.89	267.50	6.39	37.38	.3694
96	.92343	—	85.14	180.27	4.87	55.47	.5482	46	.95395	—	177.66	271.25	6.41	36.86	.3643
100 + 95	.92393	—	86.03	181.13	4.90	55.21	.5456	100 + 45	.95467	—	181.61	275.18	6.43	36.34	.3591
94	.92443	—	86.94	182.02	4.92	54.94	.5429	44	.95538	—	185.74	279.29	6.45	35.81	.3538
93	.92493	—	87.87	182.93	4.94	54.67	.5402	43	.95610	—	190.06	283.60	6.46	35.26	.3485
92	.92544	—	88.83	183.86	4.97	54.39	.5375	42	.95682	—	194.59	288.11	6.48	34.71	.3431
91	.92595	—	89.81	184.81	5.00	54.11	.5347	41	.95754	—	199.33	292.83	6.50	34.15	.3375
100 + 90	.9246	—	90.81	185.78	5.03	53.83	.5319	100 + 40	.95826	—	204.32	297.79	6.53	33.58	.3319
89	.92699	—	91.83	186.77	5.06	53.54	.5291	39	.95898	—	209.56	303.02	6.54	33.00	.3261
88	.92753	—	92.87	187.78	5.09	53.26	.5262	38	.95971	—	215.07	308.53	6.54	32.41	.3203
87	.92807	—	93.94	188.82	5.12	52.96	.5233	37	.96044	—	220.88	314.34	6.54	31.81	.3144
86	.92862	—	95.03	189.88	5.15	52.66	.5204	36	.96118	—	227.02	320.47	6.55	31.20	.3084
100 + 85	.92917	—	96.15	190.96	5.19	52.36	.5175	100 + 35	.96192	—	233.51	326.92	6.59	30.59	.3023
84	.92973	—	97.29	192.07	5.22	52.06	.5144	34	.96266	—	240.37	333.79	6.58	29.96	.2961
83	.93029	—	98.46	193.21	5.25	51.75	.5114	33	.96341	—	247.66	341.09	6.57	29.32	.2898
82	.93086	—	99.66	194.38	5.28	51.44	.5083	32	.96416	—	255.40	348.83	6.57	28.67	.2833
81	.93144	—	100.90	195.58	5.32	51.13	.5052	31	.96492	—	263.64	357.07	6.57	28.01	.2768
100 + 80	.93201	—	102.16	196.80	5.36	50.81	.5021	100 + 30	.96568	—	272.42	365.85	6.57	27.33	.2701
79	.93258	—	103.45	198.07	5.38	50.48	.4989	29	.96645	—	281.82	375.26	6.56	26.65	.2634
78	.93315	—	104.77	199.37	5.40	50.15	.4957	28	.96723	—	291.88	385.34	6.54	25.95	.2565
77	.93372	—	106.13	200.70	5.43	49.82	.4924	27	.96802	—	302.69	396.16	6.53	25.24	.2495
76	.93430	—	107.53	202.07	5.46	49.48	.4890	26	.96882	—	314.33	407.81	6.52	24.52	.2424
100 + 75	.93488	—	108.97	203.48	5.49	49.14	.4856	100 + 25	.96963	—	326.91	420.42	6.49	23.79	.2351
74	.93546	—	110.44	204.93	5.51	48.80	.4822	24	.97045	—	340.53	434.07	6.46	23.04	.2277
73	.93605	—	111.95	206.41	5.54	48.45	.4788	23	.97128	—	355.33	448.90	6.43	22.27	.2202
72	.93664	—	113.50	207.94	5.56	48.09	.4753	22	.97212	—	371.49	466.09	6.40	21.50	.2125
71	.93724	—	115.10	209.51	5.59	47.73	.4717	21	.97298	—	389.18	482.81	6.37	20.71	.2047
100 + 70	.93785	—	116.75	211.12	5.63	47.37	.4681	100 + 20	.97385	—	408.64	502.32	6.32	19.91	.1967
69	.93847	—	118.44	212.78	5.66	47.00	.4645	19	.97473	—	430.14	523.87	6.27	19.09	.1886
68	.93910	—	120.18	214.48	5.70	46.62	.4608	18	.97563	—	454.04	547.83	6.21	18.25	.1804
67	.93973	—	121.97	216.25	5.72	46.24	.4570	17	.97655	—	480.75	574.59	6.16	17.40	.1720
66	.94037	—	123.82	218.06	5.76	45.86	.4532	16	.97749	—	510.79	604.70	6.09	16.54	.1635
100 + 65	.94102	—	125.73	219.93	5.80	45.47	.4493	100 + 15	.97845	—	544.85	638.83	6.02	15.65	.1547
64	.94167	—	127.69	221.86	5.83	45.07	.4454	14	.97943	—	583.76	677.84	5.92	14.75	.1458
63	.94232	—	129.72	223.85	5.87	44.67	.4415	13	.98044	—	628.67	722.82	5.85	13.83	.1367
62	.94298	—	131.81	225.91	5.90	44.26	.4375	12	.98148	—	681.06	775.30	5.76	12.89	.1275
61	.94364	—	133.98	228.04	5.94	43.85	.4334	11	.98256	—	742.97	837.32	5.65	11.94	.1180
100 + 60	.94431	—	136.21	230.23	5.98	43.43	.4292	100 + 10	.98367	—	817.27	911.70	5.57	10.97	.1084
59	.94498	—	138.51	232.50	6.01	43.01	.4250	9	.98482	—	908.08	1002.64	5.44	9.97	.0986
58	.94565	—	140.89	234.86	6.03	42.58	.4207	8	.98602	—	1021.59	1116.26	5.33	8.96	.0885
57	.94632	—	143.37	237.30	6.07	42.14	.4164	7	.98727	—	1167.53	1262.32	5.21	7.92	.0783
56	.94700	—	145.94	239.83	6.11	41.69	.4120	6	.98856	—	1362.12	1457.03	5.09	6.86	.0678
100 + 55	.94768	—	148.58	242.45	6.13	41.24	.4076	100 + 5	.98991	—	1634.54	1729.58	4.96	5.78	.0571
54	.94836	—	151.31	245.16	6.15	40.79	.4031	4	.99131	—	2043.18	2138.36	4.82	4.68	.0462
53	.94904	—	154.16	247.99	6.17	40.33	.3985	3	.99278	—	2724.23	2819.54	4.69	3.55	.0350
52	.94973	—	157.13	250.93	6.20	39.85	.3938	2	.99432	—	4086.35	4181.79	4.56	2.39	.0236
51	.95042	—	160.23	253.99	6.24	39.37	.3891	1	.99592	—	8172.70	8268.26	4.44	1.21	.0120

## Specific gravity of water at the different degrees of heat.

Heat.	Specific gravity.	Heat.	Specific gravity.	Heat.	Specific gravity.	Heat.	Specific gravity.	Heat.	Specific gravity.	Heat.	Specific gravity.	Heat.	Specific gravity.	Heat.	Specific gravity.	Heat.	Specific gravity.	Heat.	Specific gravity.
30	1,00074	35	1,00090	40	1,00094	45	1,00086	50	1,00068	55	1,00038	60	1,00000	65	,99950	70	,99894	75	,99830
31	1,00078	36	1,00092	41	1,00093	46	1,00083	51	1,00063	56	1,00031	61	,99991	66	,99939	71	,99882	76	,99816
32	1,00082	37	1,00093	42	1,00092	47	1,00080	52	1,00057	57	1,00024	62	,99981	67	,99923	72	,99869	77	,99802
33	1,00085	38	1,00094	43	1,00090	48	1,00076	53	1,00051	58	1,00016	63	,99971	68	,99917	73	,99856	78	,99788
34	1,00088	39	1,00094	44	1,00088	49	1,00072	54	1,00045	59	1,00008	64	,99961	69	,99906	74	,99843	79	,99774
																80	,99759		

Although the titles of the Columns in the preceding Tables, with what has been said in the introductory discourse, may render the Tables sufficiently obvious to the generality of readers, yet to some perhaps an example may be necessary; I shall therefore shew in what manner the quantity by measure of pure Spirit of ,825 specific gravity at 60° of heat, may readily be found by the help of these Tables.—In order to which, we must know the heat, the specific gravity, and quantity of spirit which the vessel contains.

**EXAMPLE.** Suppose the heat to be 35°, the specific gravity ,909, and the quantity of spirit 138,99 measures.

Under 35° of heat, and in Column II. of specific gravity, find ,909; and in the same horizontal line, take out from Column VIII, the decimal multiplier ,7297, by which multiply 138,99, cutting off as many figures to the right as there are decimals in both factors; then we shall have 101,421003 for the measures of pure spirit, of the specific gravity ,825 at 60° of heat.

Now a mere inspection of the Columns in the Tables will shew that a spirit of that strength was obtained, by adding 51 parts of water by weight to 100 parts of spirit, as in Column I. which produced the specific gravity found in the same horizontal line, Column II. It will as readily be seen, that the same specific gravity results from adding together their equivalents in measure, Columns III. and IV. and that Column V. contains the quantity, which the two quantities really measure after the mixture has been made.

## ERRATA.

Page 281, column IV. line 34, for 126,12, read 125,12.

283, ——— I. — 17, for 100 + 54, read 100 + 34.

Ibid. ——— IV. — 34, for 126,05, read 125,05.

Ibid. ——— V. — 2 from bottom, for 4886,96, read 4286,96.

285, ——— VIII. — 23, for ,5046, read ,5056.

286, ——— IV. — 8 from bottom, for 77,99, read 76,99.

287, ——— VIII. — 23, for ,5044, read ,5054.

289, ——— II. — 28, for ,95485, read ,95385.

290, ——— IV. — 1 dele 0,84.